Contents of Volume 251

January 10, 1976

1 **Instructions to authors.**

11 **Documentation of results in the determination of the covalent structure of proteins.**

13 **Effects of anti-insulin serum, insulin, and glucose on output of triglycerides and on ketogenesis by the perfused rat liver.**
William F. Woodside and Murray Heimberg

24 **An *in vitro* study of vitamin D_2 hydroxylases in the chick.**
Glenville Jones, Heinrich K. Schnoes, and Hector F. DeLuca

29 **A complex of cardiac cytochrome c_1 and cytochrome *c*.**
Young-Ling Chiang, Laurence S. Kaminsky, and Tsoo E. King

37 **Mechanism of 3-mercaptopicolinic acid inhibition of hepatic phosphoenolpyruvate carboxykinase (GTP).**
Mireille Jomain-Baum, Vern L. Schramm, and Richard W. Hanson

45 **Ligand binding properties of horse hemoglobins containing deutero- and mesoheme.**
David W. Seybert, Keith Mofat, and Quentin H. Gibson

53 **Leucine aminopeptidase (bovine lens). Effect of pH on the relative binding of Zn^{2+} and Mg^{2+} to and on activation of the enzyme.**
Gregory A. Thompson and Frederick H. Carpenter

61 **Studies on the mechanism and stereochemical properties of the oxalacetate decarboxylase activity of pyruvate kinase.**
Donald J. Creighton and Irwin A. Rose

69 **Oxalacetate decarboxylase activity in muscle is due to pyruvate kinase.**
Donald J. Creighton and Irwin A. Rose

73 **Conformational changes required for pyruvate kinase activity as modulated by monovalent cations.**
Thomas Nowak

79 **Differential control of rat microsomal "aryl hydrocarbon" monooxygenase and epoxide hydratase.**
Franz Oesch

88 **Biochemical studies of taste sensation. Binding of L-[^{3}H]alanine to a sedimentable fraction from catfish barbel epithelium.**
James M. Krueger and Robert H. Cagan

98 **Studies on the fatty acid inactivation of phosphofructokinase**
Candadai S. Ramadoss, Kosaku Uyeda, and John M. Johnston

108 **Regulation of mitochondrial protein synthesis at the polyribosomal level.**
Nader G. Ibrahim and Diana S. Beattie

116 **Protein inhibitor of acid deoxyribonucleases. Improved purification procedure and properties.**
Pierre Lesca

124 **A revised preparation of yeast *(Saccharomyces cerevisiae)* pyruvate kinase.**
Shyun-long Yun, Ann E. Aust, and Clarence H. Suelter

129 **Primary structure of a high potential iron-sulfur protein from the purple non-sulfur photosynthetic bacterium *Rhodopseudomonas gelatinosa*.**
Siv M. Tedro, Terrance E. Meyer, and Martin D. Kamen

137 **Specific binding of *Escherichia coli* chain initiation factor 2 to fMet-rRNA$_f^{Met}$.**
Alokes Majumdar, Kallol K. Bose, Naba K. Gupta, and Albert J. Wahba

141 **High molecular weight RNAs from Rous sarcoma virus and Moloney murine leukemia virus contain two subunits.**
Andrew M. Q. King

150 **All intact subunit RNAs from Rous sarcoma virus contain poly(A).**
Andrew M. Q. King and Robert D. Wells

153 **External labeling of galactose in surface membrane glycoproteins of the intact myelin sheath.**
Joseph F. Pdouslo, Richard H. Quarles, and Roscoe O. Brady

159 **Chemical and biological properties of synthetic, sulfur-free analogues of parathyroid hormone.**
Michael Rosenblatt, David Goltzman, Henry T. Keutmann, Geoffrey W. Tregear, and John T. Potts, Jr.

165 **Comparison of the arginine esteropeptidases associated with the nerve and epidermal growth factors.**
Alfred C. Server and Eric M. Shooter

174 **An endo-α1→6-D-mannanase from a soil bacterium. Purification, properties, and mode of action.**
Tasuku Nakajima, Shyamal K. Maitra, and Clinton E. Ballou

182 **Nucleotide-metabolizing enzymes in *Chlamydomonas* flagella.**
Takehiko Watanabe and Martin Flavin

193 **Membrane-associated thiamin triphosphatase. II. Activation by divalent cations.**
Robert L. Barchi and Richard O. Viale

198 ***In vitro* biosynthesis of sialosylgalactosylceramide (G_7) by mouse brain microsomes.**
Robert K. Yu and Soo Hee Lee

204 **Proteolytic enzymes of the K-1 strain of *Streptomyces griseus* obtained from a commercial preparation (Pronase). Purification and characterization of the carboxypeptidase.**
Joseph F. Seber, Thomas P. Toomey, Janet T. Powell, Keith Brew, and William M. Awad, Jr.

209 **Reconstitution of *Bacillus stearothermophilus* 50 S ribosomal subunits from purified molecular components.**
Jeffrey A. Cohlberg and Masayasu Nomura

222 **Disulfide bond-modified trypsinogen. Role of disulfide 179–203 on the specificity characteristics of bovine trypsin toward synthetic substrates.**
Ralph J. Knights and Albert Light

229 **Bromopyruvate inactivation of glutamate apodecarboxylase. Kinetics and specificity.**
Margaret L. Fonda

236 **Horse liver aldehyde dehydrogenase. Purification and characterization of two isozymes.**
John Eckfeldt, Louis Mope, Koji Takio, and Takashi Yonetani

241 **Studies on Arginyl-tRNA synthetase from *Escherichia coli* B. Dual role of metals in enzyme catalysis.**
Jonathan E. Craine and Alan Peterkofsky

247 **Trypsin-sensitive photosynthetic activities in chloroplast membranes from *Chlamydomonas reinhardi*, y-1.**
Gunter Regitz and Itzhak Ohad

COMMUNICATION

253 **Resolution of erythrocyte membrane proteins by two-dimensional electrophoresis.**
Michael J. Conrad and John T. Penniston

January 25, 1976

257 **Studies on cytochrome oxidase. Partial resolution of enzymes containing seven or six subunits, from yeast and beef heart, respectively.**
Sem H. Phan and Henry R. Mahler

270 **Studies on cytochrome oxidase. Preliminary characacterization of an enzyme containing only four subunits.**

Sem H. Phan and Henry R. Mahler

277 **Suppression of the mitochondrial oxidation of (−)-palmitylcarnitine by the malate-aspartate and α-glycerophosphate shuttles.**
Lawrence Lumeng, Jon Bremer, and E. Jack Davis

285 **Biosynthesis of chondroitin sulfate. Role of phospholipids in the activity of UDP-D-galactose:D-xylose galactosyltransferase.**
Nancy B. Schwartz

292 **Structure and function of initiation complexes which accumulate during inhibition of protein synthesis by fluoride ion.**
Walter Godchaux, III and Kimball C. Atwood, IV

302 **Studies of a glycoprotein in the oocysts of *Eimeria tenella*.**
Ronald L. Stotish, Ching C. Wang, Martin Hichens, William J. A. VandenHeuvel, and Paul Gale

308 **Reaction of tetranitromethane with lutropin, oxytocin, and vasopressin.**
Bruce D. Burleigh, Wan-Kyng Liu, and Darrell N. Ward

316 **Effect of selective nitration of ovine lutropin on the subunit association and biological activity of the hormone.**
Wan-Kyng Liu and Darrell N. Ward

320 **Rat liver pyruvate carboxylase. Inhibition by chromium nucleotide complexes.**
David A. Armbruster and Frederick B. Rudolph

324 **Human platelet factor 4: purification and characterization by affinity chromatography. Purification of human platelet factor 4.**
Shirley P. Levine and Herbert Wohl

329 ***Escherichia coli* glyoxalate carboligase. Properties and reconstitution with 5-deazaFAD and 1,5-dihydrodeazaFADH$_2$.**
Thomas H. Cromartie and Christopher T. Walsh

334 **Interactions of glucocorticoid receptor·steroid complexes with acceptor sites.**
S. Stoney Simons, Jr., Hugo M. Martinez, Robert L. Garcea, John D. Baxter, and Gordon M. Tomkins

344 **Group translocation of the ribose moiety of inosine by vesicles of plasma membrane from 3T3 cells transformed by Simian virus 40.**
Dennis C. Quinlan and Joy Hochstadt

355 **A new vitamin K-dependent protein. Purification from bovine plasma and preliminary characterization.**
Johan Stenflo

364 **Isolation and characterization of crystalline methylglyoxal synthetase from *Proteus vulgaris*.**
Pei-Kuo Tsai and Robert W. Gracy

368 **Beef kidney 3-hydroxyanthranilic acid oxygenase. Purification, characterization, and analysis of the assay.**
William A. Koontz and Ross Shiman

378 **Effects of colipase and taurodeoxycholate on the catalytic and physical properties of pancreatic lipase B at an oil-water interface.**
William E. Momsen and Howard L. Brockman

384 **Inhibition of pancreatic lipase B activity by taurodeoxycholate and its reversal by colipase. Mechanism of action.**
William E. Momsen and Howard L. Brockman

389 **Rickettsial permeability. An ADP-ATP transport system.**
Herbert H. Winkler

397 **Metabolism and biological activity of 24,25-dihydroxyvitamin D$_3$ in the chick.**
Michael F. Holick, Lee Ann Baxter, Patricia K. Schraufrogel, Thomas E. Tavela, and Hector F. DeLuca

403 **Zinc-chloride ion exchange rates in carboxypeptidase A.**
R. S. Stephens and R. G. Bryant

407 **Monomeric purine nucleoside phosphorylase from rabbit liver. Purification and characterization.**
Arthur S. Lewis and Morton D. Glantz

414 **Purification to homogeneity and properties of two D-alanine carboxypeptidases I from *Escherichia coli***
Toshihide Tamura, Yasuo Imae, and Jack L. Strominger

424 **Acetylation of 13-sophorosyloxydocosanoic acid by an acetyltransferase purified from *Candida bogoriensis*.**
Michael L. Bucholtz and Robley J. Light

431 **Hydrolysis of 13-sophorosyloxydocosanoic acid esters by acetyl- and carboxylesterases isolated from *Candida bogoriensis***
Michael L. Bucholtz and Robley J. Light

438 **Isolation of cyclic deoxyadenosine 3′:5′-monophosphate from the culture fluid of *Corynebacterium muriscepticum* No. 7.**
Jiro Ishiyama

441 **Effects of *p*-hydroxymercuribenzoate binding on the visible absorption spectrum of methemoglobin.**
John S. Olson

447 **Binding of inositol hexaphosphate to human methemoglobin.**
John S. Olson

459 **Molecular size of nerve growth factor in dilute solution.**
Michael Young, Judith D. Saide, Richard A. Murphy, and Barry G. W. Arnason

465 **Reaction of haptoglobin with hemoglobin covalently cross-linked between the αβ dimers.**
Ruth E. Benesch, Seiichiro Ikeda, and Reinhold Benesch

471 **Linear structure of the oligosaccharide chains in α$_1$-protease inhibitor isolated from human plasma.**
Shung Kai Chan, Douglas C. Rees, Su-Chen Li, and Yu-Teh Li

477 **Carbon 13 resonances of $^{13}CO_2$ carbamino adducts of α and β chains in human adult hemoglobin.**
Jon S. Morrow, James B. Matthew, Richard J. Wittebort, and Frank R. N. Gurd

485 **Purine nucleotide cycle. Evidence for the occurrence of the cycle in brain.**
Vera Schultz and John M. Lowenstein

493 **Properties of ecto-(inorganic) pyrophosphatase of nervous system cells in culture. Activation upon partial release of sialic acid from the cell surface.**
Vladisav Stefanovic, Paul Mandel, and Abraham Rosenberg

498 **Kinetics of α-chymotrypsin dimerization.**
Martha J. Gilleland and Myron L. Bender

503 **Effect of L-3,4-dehydroproline on collagen synthesis and prolyl hydroxylase activity in mammalian cell cultures.**
S. S. Kerwar, Arthur M. Felix, Richard J. Marcel, Irene Tsai, and Richard A. Salvador

510 **External labeling of human erythrocyte glycoproteins. Studies with galactose oxidase and fluorography.**
Carl G. Gahmberg

516 **Effect of estrogen on gene expression in the chick oviduct. Correlation between nuclear-bound estrogen receptor and chromatin initiation sites for transcription.**
Mohammed Kalimi, Sophia Y. Tsai, Ming-Jer Tsai, James H. Clark, and Bert W. O'Malley

524 **Effect of estrogen on gene expression in the chick oviduct. *In vitro* transcription of the ovalbumin gene in chromatin.**
Stephen E. Harris, Robert J. Schwartz, Ming-Jer Tsai, Arun K. Roy, and Bert W. O'Malley

530 **Site of cleavage of superhelical φX174 replicative form DNA by the single strand-specific *Neurospora crassa* endonuclease.**
Katalina Bartok and David T. Denhardt

536 **The physical mapping of bacteriophage T5 transfer tRNAs.**
Mann-Jy Chen, Joseph Locker, and Samuel B. Weiss

548 **Non-histone chromosomal proteins from HeLa cells. A survey by high resolution, two-dimensional electrophoresis.**
Jane L. Peterson and Edwin H. McConkey

555 **Proteins of Friend leukemia cells. Comparison of hemoglobin-synthesizing and noninduced populations.**
Jane L. Peterson and Edwin H. McConkey

559 **Structural proteins of ribonucleic acid tumor viruses. Purification of envelope, core, and internal components.**
Mette Strand and J. T. August

565 **Total synthesis of the structural gene for the precursor of a tyrosine suppressor transfer RNA from *Escherichia coli*. 1. General introduction.**
H. Gobind Khorana, Kan L. Agarwal, Peter Besmer, Henry Büchi, Marvin H. Caruthers, Peter J. Cashion, Mati Fridkin, Ernest Jay, Kjell Kleppe, Ruth Kleppe, Ashok Kumar, Peter C. Loewen, Robert C. Miller, Katsumaro Minamoto, Amos Panet, Uttam L. RajBhandary, Belagaje Ramamoorthy, Takao Sekiya, Tatsuo Takeya, and J. Hans van de Sande

571 **Total synthesis of the structural gene for the precursor of a tyrosine suppressor transfer RNA from *Escherichia coli*. 2. Chemical synthesis of the deoxypolynucleotide segments corresponding to the nucleotide sequence 1–31.**
J. Hans van de Sande, Marvin H. Caruthers, Ashok Kumar, and H. Gobind Khorana

587 **Total synthesis of the structural gene for the precursor of a tyrosine suppressor transfer RNA from *Escherichia coli*. 3. Synthesis of deoxyribopolynucleotide segments corresponding to the nucleotide sequence 27–51.**
Katsumaro Minamoto, Marvin H. Caruthers, Belagaje Ramamoorthy, J. Hans van de Sande, Nina Sidorova, and H. Gobind Khorana

599 **Total synthesis of the structural gene for the precursor of a tyrosine suppressor transfer RNA from *Escherichia coli*. 4. Synthesis of deoxyribopolynucleotide segments corresponding to the nucleotide sequence 47–78.**
Kan L. Agarwal, Marvin H. Caruthers, Mati Fridkin, Ashok Kumar, J. Hans van de Sande, and H. Gobind Khorana

609 **Total synthesis of the structural gene for the precursor of a tyrosine suppressor transfer RNA from *Escherichia coli*. 5. Synthesis of the deoxyribopolynucleotide segments representing the nucleotide sequence 71–103.**
Ernest Jay, Peter J. Cashion, Mati Fridkin, Belagaje Ramamoorthy, Kan L. Agarwal, Marvin H. Caruthers, and H. Gobind Khorana

624 **Total synthesis of the structural gene for the precursor of a tyrosine suppressor transfer RNA from *Escherichia coli*. 6. Synthesis of the deoxyribopolynucleotide segments corresponding to the nucleotide sequence 100–126.**
Kan L. Agarwal, Marvin H. Caruthers, Henry Büchi, J. Hans van de Sande, and H. Gobind Khorana

634 **Total synthesis of the structural gene for the precursor of a tyrosine suppressor transfer RNA from *Escherichia coli*. 7. Enzymatic joining of the chemically synthesized segments to form a DNA duplex corresponding to the nucleotide sequence 1–26.**
Takao Sekiya, Peter Besmer, Tatsuo Takeya, and H. Gobind Khorana

642 **Total synthesis of the structural gene for the precursor of a tyrosine suppressor transfer RNA from *Escherichia coli*. 8. Enzymatic joining of the chemically synthesized segments to form DNA duplexes corresponding to nucleotide sequences 23–60 and 23–66.**
Peter C. Loewen, Robert C. Miller, Amos Panet, Takao Sekiya, and H. Gobind Khorana

651 **Total synthesis of the structural gene for the precursor of a tyrosine suppressor transfer RNA from *Escherichia coli*. 9. Enzymatic joining of chemically synthesized deoxyribopolynucleotide segments corresponding to nucleotide sequence 57–94.**
Amos Panet, Ruth Kleppe, Kjell Kleppe, and H. Gobind Khorana

658 **Total synthesis of the structural gene for the precursor of a tyrosine suppressor transfer RNA from *Escherichia coli*. 10. Enzymatic joining of chemically synthesized segments to form the DNA duplex corresponding to the nucleotide sequence 86–126.**
Marvin H. Caruthers, Ruth Kleppe, Kjell Kleppe, and H. Gobind Khorana

667 **Total synthesis of the structural gene for the precursor of a tyrosine suppressor transfer RNA from *Escherichia coli*. 11. Enzymatic joining to form the total DNA duplex.**
Ruth Kleppe, Takao Sekiya, Peter C. Loewen, Kjell Kleppe, Kan L. Agarwal, Henry Büchi, Peter Besmer, Marvin H. Caruthers, Peter J. Cashion, Mati Fridkin, Ernest Jay, Ashok Kumar, Robert C. Miller, Katsumaro Minamoto, Amos Panet, U. L. RajBhandary, Belagaje Ramamoorthy, Nina Sidorova, Tatsuo Takeya, J. Hans van de Sande, and H. Gobind Khorana

676 **Total synthesis of the structural gene for the precursor of a tyrosine suppressor transfer RNA from *Escherichia coli*. 12. Synthesis of a DNA duplex corresponding to a sequence of 23 nucleotide units adjoining the C-C-A end.**
Belagaje Ramamoorthy, Robert G. Lees, Dennis G. Kleid, and H. Gobind Khorana

695 **Amino acid sequence of flagellin of *Bacillus subtilis* 168. I. Cyanogen bromide peptides.**
Joyce Y. Chang, Robert J. DeLange, Joel H. Shaper, and Alexander N. Glazer

701 **Amino acid sequence of flagellin of *Bacillus subtilis* 168. II. Tryptic peptides from maleylated flagellin.**
Joel H. Shaper, Robert J. DeLange, Rafael J. Martinez, and Alexander N. Glazer

705 **Amino acid sequence of flagellin of *Bacillus subtilis* 168. III. Tryptic peptides, *N*-bromosuccinimide peptides, and the complete amino acid sequence.**
Robert J. DeLange, Joyce Y. Chang, Joel H. Shaper, and Alexander N. Glazer

712 **Isolation and characterization of tryptic fragments of the adenosine triphosphatase of sarcoplasmic reticulum.**
Peter S. Stewart, David H. MacLennan, and Adil E. Shamoo

720 **Studies on the synthesis of rat liver fatty acid synthetase.**
Larry D. Strawser and Allan R. Larrabee

725 **Effects of adenosine 3′:5′-monophosphate-dependent protein kinase on sarcoplasmic reticulum isolated from cardiac and slow and fast contracting skeletal muscles.**
Madeleine A. Kirchberger and Michihiko Tada

730 **Biosynthesis of basement membrane collagen by rabbit corneal endothelium *in vitro*.**
Nicholas A. Kefalides, J. Douglas Cameron, Emilie A. Tomichek, and Myron Yanoff

734 **Double-headed protease inhibitors from black-eyed peas. I. Purification of two new protease inhibitors and the endogenous protease by affinity chromatography.**
Louise Slade Gennis and Charles R. Cantor

741 **Double-headed protease inhibitors from black-eyed peas. II. Structural studies by optical absorption and circular dichroism.**
Louise Slade Gennis and Charles R. Cantor

747 **Double-headed protease inhibitors from black-eyed peas. III. Subunit interactions of the native and half-site chemically modified proteins.**
Louise Slade Gennis and Charles R. Cantor

754 **Double-headed protease inhibitors from black-eyed peas. IV. Half-site reactivity in the formation of complexes with trypsin and chymotrypsin.**
Louise Slade Gennis and Charles R. Cantor

763 **Double-headed protease inhibitors from black-eyed peas. V. Analysis of the energetics of protease-inhibitor interactions.**
Louise Slade Gennis

769 **Double-headed protease inhibitors from black-eyed peas. VI. Singlet-singlet energy transfer and other optical studies on the structure of trypsin and chymotrypsin complexes.**
Louise Slade Gennis and Charles R. Cantor

776 **Stimulation of prostaglandin biosynthesis by vasoactive substances in methylcholanthrene-transformed mouse BALB/3T3.**
Su-Chen L. Hong, Rosemary Polsky-Cynkin, and Lawrence Levine

781 **Avian mitochondrial glutamine metabolism.**
James W. Campbell and Jean E. Vorhaben

787 **Adenine nucleotide changes at initiation of bull sperm motility.**
Margaret Cascieri, Rupert P. Amann, and Roy H. Hammerstedt

794 **Exchange of 3-*O*-methylglucose in isolated fat cells. Concentration dependence and effect of insulin.**
Jørgen Vinten, Jørgen Gliemann, and Kell Østerlind

801 **Affinity labeling of the primary bilirubin binding site of human serum albumin.**
Clive C. Kuenzle, Nilou Gitzelmann-Cumarasamy, and Kenneth J. Wilson

808 **Purification and characterization of a DNA-dependent ATPase from *Escherichia coli*.**
Evelyne Richet and Masamichi Kohiyama

813 **Purification and some properties of a monoacylglycerol-hydrolyzing enzyme of rat adipose tissue.**
Hans Tornqvist and Per Belfrage

820 **Synthesis of human placental lactogen messenger RNA as a function of gestation.**
Irving Boime, Diana McWilliams, Elzbieta Szczesna, and Mark Camel

826 **Alanine and glutamine synthesis and release from skeletal muscle. I. Glycolysis and amino acid release.**
Alan J. Garber, Irene E. Karl, and David M. Kipnis

836 **Alanine and glutamine synthesis and release from skeletal muscle. II. The precursor role of amino acids in alanine and glutamine synthesis.**
Alan J. Garber, Irene E. Karl, and David M. Kipnis

844 **Alanine and glutamine synthesis and release from skeletal muscle. III. Dietary and hormonal regulation.**
Irene E. Karl, Alan J. Garber, and David M. Kipnis

851 **Alanine and glutamine synthesis and release from skeletal muscle. IV. β-Adrenergic inhibition of amino acid release.**
Alan J. Garber, Irene E. Karl, and David M. Kipnis

858 **Affinity partitioning of membranes. Cholinergic receptor-containing membranes from *Torpedo californica*.**
Steven D. Flanagan, Samuel H. Barondes, and Palmer Taylor

866 **Separation and characterization of the troponin components from bovine cardiac muscle.**
Clark J. Brekke and Marion L. Greaser

872 **Turnover of the plasma membrane proteins of hepatoma tissue culture cells.**
John Tweto and Darrell Doyle

883 **Regulation of carbohydrate uptake and adenylate cyclase activity mediated by the Enzymes II of the phosphoenolpyruvate:sugar phosphotransferase system in *Escherichia coli*.**
Milton H. Saier, Jr., Brigitte U. Feucht, and Laura J. Hofstadter

COMMUNICATIONS

893 **Regulation of carbohydrate uptake in Gram-positive bacteria.**
Milton H. Saier, Jr. and Robert D. Simoni

895 **Binding and precipitation of soluble collagens by chick embryo cartilage proteoglycan.**
Bryan P. Toole

898 **Syntheses of elongation factors Tu and G are under stringent control in *Escherichia coli*.**
Anthony V. Furano and Frederick P. Wittel

902 **Intermolecular tritium transfer in the transcarboxylase reaction.**
Irwin A. Rose, Edward L. O'Connell, and Frank Solomon

ADDITIONS AND CORRECTIONS

905 **Interactions of plasma retinol-binding protein with its receptor. Specific binding of bovine and human retinol-binding protein to pigment epithelium cells from bovine eyes. Vol. 250 (1975) 3613–3619.**
Joram Heller

February 25, 1976

907 **Isolation and characterization of indole-3-acetaldehyde reductases from *Cucumis sativus*.**
Hugh M. Brown and William K. Purves

914 **Testicular protein kinases. Characterization of multiple forms and ontogeny.**
P. C. Lee, David Radloff, John S. Schweppe, and Richard A. Jungmann.

922 **Isolation and characterization of large transfer ribonucleic acid precursors from *Escherichia coli*.**
Christine Ilgen, Larry L. Kirk, and John Carbon

930 **Selective chemical modification of *Escherichia coli* Elongation Factor G. *N*-Ethymaleimide modification of a cysteine essential for nucleotide binding.**
Michael S. Rohrbach and James W. Bodley

934 **ATP-dependent reactions catalyzed by inner membrane vesicles of rat liver mitochondria. Kinetics, substrate specificity, and bicarbonate sensitivity.**
Peter L. Pedersen

941 **Properties of anthranilate synthetase Component II from *Pseudomonas putida*.**
Yoshitaka Goto, Howard Zalkin, Pamela S. Keim, and Robert L. Heinrikson

950 **A major polypeptide component of rat liver mitochondria: carbamyl phosphate synthetase.**
Steven Clarke

962 **Calcium transport driven by a proton gradient in inverted membrane vesicles of *Escherichia coli*.**
Tomofusa Tsuchiya and Barry P. Rosen

968 **Stoichiometry of H^+ ejection during respiration-dependent accumulation of Ca^{2+} by rat liver mitochondria.**
Martin D. Brand, Chung-Ho Chen, and Albert L. Lehninger

975 **On the fidelity of DNA replication. Enzyme activities associated with DNA polymerases from RNA tumor viruses.**
Gita Seal and Lawrence A. Loeb

982 **On the fidelity of DNA replication. Lack of exodeoxyribonuclease activity and error-correcting function in avian myeloblastosis virus DNA polymerase.**
Narayana Battula and Lawrence A. Loeb

987 **Identification of albumin as the serum factor essential for the growth of activated human lymphocytes.**
Helga Spieker-Polet and Herman Polet

993 **Amino acid sequence of the β subunit of follicle-stimulating hormone from human pituitary glands.**
Brij B. Saxena and Premila Rathnam

1006 **Acylation of subtilisin Carlsberg by phenyl esters.**
Michael S. Matta, Carmine M. Greene, Ross L. Stein, and Patricia A. Henderson

1009 **Evidence that approximately eighty per cent of the soluble proteins from Ehrlich ascites cells are N^{α}-acetylated.**
Jerry L. Brown and Walden K. Roberts

1015 **Inhibition by superoxide dismutase of methemoglobin formation from oxyhemoglobin.**
Robert E. Lynch, G. Richard Lee, and George E. Cartwright

1020 **Synthesis of 1α-hydroxy[6-^{3}H]vitamin D_3 and its metabolism to 1α,25-dihydroxy[6-^{3}H]vitamin D_3 in the rat.**
Michael F. Holick, Thomas E. Tavela, Sally A. Holick, Heinrich K. Schnoes, Hector F. DeLuca, and Barbara M. Gallagher

1025 **Metabolism of 1α-hydroxyvitamin D_3 in the chick.**
Sally A. Holick, Michael F. Holick, Thomas E. Tavela, Heinrich K. Schnoes, and Hector F. DeLuca

1029 **Effect of dietary protein and tryptophan on the turnover of rat liver ornithine aminotransferase.**
Po Yok Chee and Robert W. Swick

1035 **Relationship between microsomal membrane permeability and the inhibition of hepatic glucose-6-phosphatase by pyridoxal phosphate.**
Gerald Gold and Christopher C. Widnell

1042 **Transport and metabolism of vitamin B6 in the yeast *Saccharomyces carlsbergensis* 4228.**
Barry Shane and Esmond E. Snell

1052 **Transport and metabolism of vitamin B6 in *Salmonella typhimurium* LT2.**
James H. Mulligan and Esmond E. Snell

1057 **Purification of normal and inactive galactosemic galactose-1-phosphate uridylyltransferase from human red cells.**
George L. Dale and G. Popják

1064 **Purification and subunit structure of deoxyribonucleic acid-dependent ribonucleic acid polymerase III from the mouse plasmacytoma, MOPC 315.**
Virgil E. F. Sklar and Robert G. Roeder

1074 **Aglycosylantibody. Effects of exoglycosidase treatments on autochthonous antibody survival time in the circulation.**
Jeffrey L. Winkelhake and Garth L. Nicolson

1081 **Preparation and characterization of a dextran-trypsin conjugate.**
J. John Marshall and Mark L. Rabinowitz

1088 **Proton magnetic resonance studies of glutamate-alanine transaminase-catalyzed deuterium exchange. Evidence for proton conservation during prototropic transfer from the α carbon of L-alanine to the C'_4-position of pyridoxal 5′-phosphate.**
Arthur J. L. Cooper

1097 **Polypeptide halomethyl ketones bind to serine proteases as analogs of the tetrahedral intermediate. X-ray crystallographic comparison of lysine- and phenylalanine-polypeptide chloromethyl ketone-inhibited subtilisin.**
Thomas L. Poulos, Richard A. Alden, Stephan T. Freer, Jens J. Birktoft, and Joseph Kraut

1104 **Correlation of the kinetics of electron transfer activity of various eukaryotic cytochromes *c* with binding to mitochondrial cytochrome *c* oxidase.**
Shelagh Ferguson-Miller, David L. Brautigan, and E. Margoliash

1116 **Autooxidation and hydroxylation reactions of oxygenated cytochrome $P\text{-}450_{cam}$.**
John D. Lipscomb, Stephen G. Sligar, Mary J. Namtvedt, and Irwin C. Gunsalus

1125 **Demonstration of a precursor-product relationship between soluble and cross-linked elastin, and the biosynthesis of the desmosines *in vitro*.**
A. Sampath Narayanan and Roy C. Page

1131 **Studies on human serum high density lipoproteins. Self-association of apolipoprotein A-I in aqueous solutions.**
Lidia B. Vitello and Angelo M. Scanu

1137 **Effect of estrogen on gene expression in the chick oviduct. Kinetics of initiation of *in vitro* transcription on chromatin.**
Masaaki Hirose, Ming-Jer Tsai, and Bert W. O'Malley

1147 **The site of ribosome degradation in starved *Escherichia coli* cells.**
Ruth Kaplan and Esther Hartstein

1154 **Chondroitinase C from *Flavobacterium heparinum*.**
Yara M. Michelacci and Carl P. Dietrich

1159 **An activator stimulating the enzymic hydrolysis of sphingoglycolipids.**
Su-Chen Li and Yu-Teh Li

1164 **Differential effects of sulfhydryl reagents on activation and deactivation of the fat cell hexose transport system.**
Michael P. Czech

1171 **Kinetic studies of inducer binding to lactose repressor protein.**
B. Ellen Friedman, John S. Olson, and Kathleen S. Matthews

1175 **Transport mechanisms in isolated plasma membranes. Nucleoside processing by membrane vesicles from mouse fibroblast cells grown in defined medium.**
Chien-Chung Li and Joy Hochstadt

1181 **Membrane-associated enzymes involved in nucleoside processing by plasma membrane vesicles isolated from L_{929} cells grown in defined medium.**
Chien-Chung Li and Joy Hochstadt

1188 **Modification of the epidermal growth factor affecting the stability of its high molecular weight complex.**
Alfred C. Server, Arne Sutter, and Eric M. Shooter

1197 **Calcium uptake of a rat liver microsomal subcellular fraction in response to *in vivo* administration of carbon tetrachloride.**
Leon Moore, G. Rodman Davenport, and Erwin J. Landon

1202 **Metallophosphoryl and apophosphoryl alkaline phosphatases.**
Jan F. Chlebowski and Joseph E. Coleman

1207 **^{31}P NMR of phosphate and phosphonate complexes of metalloalkaline phosphatases.**
Jan F. Chlebowski, Ian M. Armitage, Philip P. Tusa, and Joseph E. Coleman

COMMUNICATIONS

1217 **Superoxide dismutase. Reversible removal of manganese and its substitution by cobalt, nickel, or zinc.**
Dennis E. Ose and Irwin Fridovich

ADDITIONS AND CORRECTIONS

1219 **Liver microsomal epoxide hydrase. Solubilization, purification, and characterization. Vol. 250 (1975) 8283–8288.**
Anthony Y. H. Lu, Dene Ryan, Donald M. Jerina, John W. Daly, and Wayne Levin

iii **Cumulative author index Numbers 1 through 4**

March 10, 1976

1221 **Binding of [^{125}I]iodohydroxybenzylpindolol to putative β-adrenergic receptors of rat glioma cells and other cell clones.**
Michael E. Maguire, Richard A. Wiklund, Hannah J. Anderson, and Alfred G. Gilman

1232 **β-Adrenergic receptor interactions. Characterization of iodohydroxybenzylpindolol as a specific ligand.**
Edward M. Brown, Daniel Hauser, Franz Troxler, and Gerald D. Aurbach

1239 **β-Adrenergic receptor interactions. Direct comparison of receptor interaction and biological activity.**
Edward M. Brown, David Rodbard, Susan A. Fedak, Charles J. Woodard, and Gerald D. Aurbach

1247 **Quaternary structure of ($Na^+ + K^+$)-dependent adenosine triphosphatase.**
Gregory J. Giotta

1253 **Glycogen phosphorylase in *Dictyostelium discoideum*. I. Purification and properties of the enzyme.**
David A. Thomas and Barbara E. Wright

1258 **Glycogen phosphorylase in *Dictyostelium discoideum*. II. Synthesis and degradation during differentiation.**
David A. Thomas and Barbara E. Wright

1264 **Activation of C_{55}-isoprenoid alcohol phosphokinase from *Staphylococcus aureus*. I. Activation by phospholipids and fatty acids.**
Robert B. Gennis and Jack L. Strominger

1270 **Activation of C_{55}-isoprenoid alcohol phosphokinase from *Staphylococcus aureus*. II. Biophysical studies.**
Robert B. Gennis, Michael Sinensky, and Jack L. Strominger

1277 **Activation of C_{55}-isoprenoid alcohol phosphokinase from *Staphylococcus aureus*. III. Activation by detergents.**
Robert B. Gennis and Jack L. Strominger

1283 **Antibodies to an NH_2-terminal fragment of β^s globin. I. Preparation and radioimmunoassay.**
John G. Curd, David Ludwig, and Alan N. Schechter

1290 **Antibodies to an NH_2-terminal fragment of β^s globin. II. Specificity and isolation of antibodies for the sickle mutation.**
John G. Curd, Neal S. Young, and Alan N. Schechter

1296 **Chemical and physical properties of an hepatic membrane protein that specifically binds asialoglycoproteins.**
Toshisuke Kawasaki and Gilbert Ashwell

1303 **Formation of ternary complexes of thymidylate synthetase as followed by absorbance, fluorescence, and circular dichroic spectra and gel electrophoresis.**

Henry Donato, Jr., John L. Aull, Jeffrey A. Lyon, James W. Reinsch, and R. Bruce Dunlap

1311 **Purification and characterization of DNA polymerase III from *Bacillus subtilis*.**
Robert L. Low, Stephan A. Rashbaum, and Nicholas R. Cozzarelli

1326 **Phospholipids as ionophores.**
Charles A. Tyson, Harold Vande Zande, and David E. Green

1333 **Ribonuclease S-peptide. A model for molecular recognition.**
Shimon Levit and Arieh Berger

1340 **δ-Aminolevulinic acid synthase from chick embryo liver mitochondria. I. Purification and some properties.**
Malcolm J. Whiting and S. Granick

1347 **δ-Aminolevulinic acid synthase from chick embryo liver mitochondria. II. Immunochemical correlation between synthesis and activity in induction and repression.**
Malcolm J. Whiting and S. Granick

1354 **Protein asymmetry in the inner membrane of rat liver mitochondria.**
Steven Clarke

1364 **Regulation of pyruvate dehydrogenase by fatty acid in isolated rat liver mitochondria.**
Joseph J. Batenburg and Merle S. Olson

1371 **Studies on the chlorinating activity of myeloperoxidase.**
John E. Harrison and Julius Schultz

1375 **Assessment of protein turnover in perfused rat liver. Evidence for amino acid compartmentation from differential labeling of free and tRNA-bound valine.**
Edward A. Khairallah and Glenn E. Mortimore

1385 **Multiple forms of rat liver cytochrome P-450. Immunochemical evidence with antibody against cytochrome P-448.**
Paul E. Thomas, Anthony Y. H. Lu, Dene Ryan, Susan B. West, Joseph Kawalek, and Wayne Levin

1392 **Regulation of phospholipid metabolism in differentiating cells from rat brain cerebral hemispheres in culture. Patterns of acetylcholine, phosphocholine, and choline phosphoglycerides labeling from [*methyl*-^{14}C]choline.**
Ephraim Yavin

1398 **Active site of ribonucleoside diphosphate reductase from *Escherichia coli*. Inactivation of the enzyme by 2′-substituted ribonucleoside diphosphates.**
Lars Thelander, Bengt Larsson, John Hobbs, and Fritz Eckstein

1406 **Inhibition of glutamate dehydrogenase and malate dehydrogenases by palmitoyl coenzyme A.**
Akihiko Kawaguchi and Konrad Bloch

1413 **On the sidedness of membrane phosphorylation by P_i and ATP synthesis during reversal of the Ca^{2+} pump of sarcoplasmic reticulum vesicles.**
Leopoldo de Meis and Maria da Glória Costa Carvalho

1418 **Kinetic and equilibrium studies of the reactions of heme-substituted horse heart myoglobins with oxygen and carbon monoxide.**
Masanori Sono, Paul D. Smith, James A. McCray, and Toshio Asakura

1427 **Control of pyrimidine biosynthesis in human lymphocytes. Inhibitory effect of guanine and guanosine on induction of enzymes for pyrimidine biosynthesis *de novo* in phytohemagglutinin-stimulated lymphocytes.**
Kazuhiko Ito and Haruto Uchino

1431 **Role of cortisol on the glycogenolytic effect of glucagon and on the glycogenic response to insulin in fetal hepatocyte culture.**
Christiane Plas and Jacques Nunez

1438 **An endonuclease from *Escherichia coli* that introduces single polynucleotide chain scissions in ultraviolet-irradiated DNA.**
Miroslav Radman

1446 **Assay of protamine messenger RNA from rainbow trout testis.**
Lashitew Gedamu and Gordon H. Dixon

1455 **Purification and properties of biologically active rainbow trout testis protamine mRNA.**
Lashitew Gedamu and Gordon H. Dixon

1464 **Yeast DNA-dependent RNA polymerase I. A rapid procedure for the large scale purification of homogeneous enzyme.**
Pablo Valenzuela, Fanyela Weinberg, Graeme Bell, and William J. Rutter

1471 **Tissue-specific chromosomal non-histone protein interactions with DNA.**
Sophia Wang, Jen-Fu Chiu, Leokadia Klyszejko-Stefanowicz, Hideo Fujitani, Allen T. Ansevin, and Lubomir S. Hnilica

1476 **Purification of and mechanism studies on citrate synthase. Use of biospecific adsorption-elution techniques.**
Amal Mukherjee and Paul A. Srere

1481 **Comparison of mode of activation of guanosine 3′:5′-monophosphate-dependent and adenosine 3′:5′-monophosphate-dependent protein kinases from silkworm.**
Yoshimi Takai, Seishi Nakaya, Masanori Inoue, Akira Kishimoto, Kaoru Nishiyama, Hirohei Yamamura, and Yasutomi Nishizuka

1488 **Triacylglycerol synthesis in isolated fat cells. An effect of insulin on microsomal fatty acid coenzyme A ligase activity.**
Casey J. Jason, Mark A. Polokoff, and Robert M. Bell

1493 **Conditional spore cortex-less mutants of *Bacillus sphaericus* 9602.**
Yasuo Imae and Jack L. Strominger

1500 **Influence of glucagon and cyclic adenosine 3′:5′-monophosphate on the phosphorylation of rat liver ribosomal protein S6.**
Axel M. Gressner and Ira G. Wool

1505 **Identification and subcellular distribution of adipocyte peptides and phosphopeptides.**
Joseph Avruch, Guy R. Leone, and Donald B. Martin

1511 **Effects of epinephrine and insulin on phosphopeptide metabolism in adipocytes.**
Joseph Avruch, Guy R. Leone, and Donald B. Martin

1516 **Subcellular localization of nerve growth factor receptors. Thirteen-day chick embryo brain.**
Andrzej Szutowicz, William A. Frazier, and Ralph A. Bradshaw

1524 **Subcellular localization of nerve growth factor receptors. Developmental correlations in chick embryo brain.**
Andrzej Szutowicz, William A. Frazier, and Ralph A. Bradshaw

COMMUNICATION

1529 **Evidence for a conformational change in $tRNA^{Phe}$ upon aminoacylation.**
Marcel Caron, Normand Brisson, and Hermann Dugas

ADDITIONS AND CORRECTIONS

1531 **Purification and properties of hyaluronidase from bull sperm. Vol. 250 (1975) 79–83.**
Chul-Hak Yang and Prakash N. Srivastava

1531 **Regulation of intracellular adenosine cyclic 3′:5′-monophosphate levels in *Escherichia coli* and *Salmonella typhimurium*. Evidence for energy-dependent excretion of the cyclic nucleotide. Vol. 250 (1975) 7593–7601.**
Milton H. Saier, Jr., Brigitte U. Feucht, and Michael T. McCaman

March 25, 1976

1533 **Quaternary conformational changes in human hemoglobin studied by laser photolysis of carboxyhemoglobin.**
Charles A. Sawicki and Quentin H. Gibson

1543 **Muscarinic acetylcholine receptor from rat brain. Partial purification and characterization.**
Peteris Alberts and Tamas Bartfai

1548 **Carbohydrate composition of bovine rhodopsin.**
James J. Plantner and Edward L. Kean

1553 **Inactivation of phosphorylase *b* by potassium ferrate, a new reactive analogue of the phosphate group.**
Young Moo Lee and William F. Benisek

1561 **Modification and restriction of T-even bacteriophages. *In vitro* degradation of deoxyribonucleic acid containing 5-hydroxymethylcytosine.**
Roger A. Fleischman, Judith L. Campbell, and Charles C. Richardson

1571 **Biochemical properties of rat liver mitochondrial aldehyde dehydrogenase with respect to oxidation of formaldehyde.**
Dominick L. Cinti, Susan R. Keyes, Mary Ann Lemelin, Helmut Denk, and John B. Schenkman

1578 **Binding of nitric oxide to reduced L-tryptophan-2,3-dioxygenase as studied by electron paramagnetic resonance.**
Yann Henry, Yuzuru Ishimura, and Jack Peisach

1582 **Partial purification of a membrane protein from human erythrocytes involved in glucose transport.**
Arthur Kahlenberg

1591 **Characterization of Fragment E from fibrinogen and cross-linked fibrin.**
C. Lawrence Slade, Salvatore V. Pizzo, Lloyd M. Taylor, Jr., Howard M. Steinman, and Patrick A. McKee

1597 **Studies on the mechanism of 3-ketosphinganine synthetase.**
Kanit Krisnangkura and Charles C. Sweeley

1603 **Purification and characterization of a troponin-C-like protein from bovine adrenal medulla.**
Ingrid C. Y. Kuo and Carole J. Coffee

1610 **Quantitative relationships between phosphorylation, electron flow, and internal hydrogen ion concentrations in spinach chloroplasts.**
Archie R. Portis, Jr. and Richard E. McCarty

1618 **Leucine aminopeptidase (bovine lens). The relative binding of cobalt and zinc to leucine aminopeptidase and the effect of cobalt substitution on specific activity.**
Gregory A. Thompson and Frederick H. Carpenter

1625 **Kinetic properties of human placental aromatase. Application of an assay measuring ^3H_2O release from 1β,2β-^{3}H-androgens.**
Ken C. Reed and Susumu Ohno

1632 **Human placental 3β-hydroxysteroid dehydrogenase: Δ5-isomerase. Demonstration of an intermediate in the conversion of 3β-hydroxypregn-5-en-20-one to pregn-4-ene-3,20-dione.**
Dean P. Edwards, James L. O'Conner, Edwin D. Bransome, Jr., and W. Emmett Braselton, Jr.

1639 **Action of fibrin-stabilizing factor on cold-insoluble globulin and α_2-macroglobulin in clotting plasma.**
Deane F. Mosher

1646 ***In vivo* metabolism of 4′-deoxypyridoxine in rat and man.**
Stephen P. Coburn, J. Dennis Mahuren, and Stephen I. Sallay

1653 **Conformation, enzymic activity, and immunochemistry of a lysozyme derivative modified at tryptophan 123 by reaction with 2,3-dioxo-5-indolinesulfonic acid.**
M. Zouhair Atassi and Wanda Zablocki

1659 **Apparent dispensability of the carbohydrate moiety of human interferon for antiviral activity.**
Sikta Bose, Dalia Gurari-Rotman, Urs Th. Ruegg, Lila Corley, and Christian B. Anfinsen

1663 **The thrombin-like enzyme from *Bothrops atrox* snake venom. Properties of the enzyme purified by affinity chromatography on *p*-aminobenzamidine-substituted agarose.**
William H. Holleman and Larry J. Weiss

1670 **Allosteric transitions in cobalt hemoglobins.**
James C. W. Chien and Fred W. Snyder, Jr.

1675 **Derivatives of *Clostridium acidi-urici* ferredoxin containing altered amino acid sequences. Semisynthetic synthesis, biological activity, and stability.**
Eglis T. Lode, Cheryl L. Murray, and Jesse C. Rabinowitz

1683 **Apparent oxidation-reduction potential of *Clostridium acidi-urici* ferredoxin. Effect of pH, ionic strength, and amino acid replacements.**
Eglis T. Lode, Cheryl L. Murray, and Jesse C. Rabinowitz

1688 **Mechanism and specificity of succinyl-CoA:3-ketoacid coenzyme A transferase.**
Howard White and William P. Jencks

1700 **Utilization of the inactivation rate of coenzyme A transferase by thiol reagents to determine properties of the enzyme-CoA intermediate.**
Howard White, Frank Solomon, and William P. Jencks

1708 **Properties of succinyl-CoA:3-ketoacid coenzyme A transferase.**
Howard White and William P. Jencks

1712 **Structural studies on yeast RNA polymerases. Existence of common subunits in RNA polymerases A(I) and B(II).**
Jean-Marie Buhler, Francois Iborra, Andre Sentenac, and Pierre Fromageot

1718 **Stoichiometry of polypeptide chain elongation.**
Bartolome Cabrer, Maria Jose San-Millan, David Vazquez, and Juan Modollel

1723 **Properties of biologically active messenger RNA from human placenta. Cell-free synthesis of two immunoreactive forms of placental lactogen.**
G. Stanley Cox, Bruce D. Weintraub, Saul W. Rosen, and Elizabeth S. Maxwell

1731 **The stimulus-secretion coupling of glucose-induced insulin release. Fasting-induced adaptation of key glycolytic enzymes in isolated islets.**
Willy J. Malaisse, Abdullah Sener, and Joseph Levy

1738 **Studies on regulatory factors of ornithine decarboxylase activity during development of mouse mammary epithelium *in vitro*.**
Takami Oka and John W. Perry

1745 **Inhibition of 3-hydroxy-3-methylglutaryl coenzyme A reductase activity in hepatoma tissue culture cells by pure cholesterol and several cholesterol derivatives. Evidence supporting two distinct mechanisms.**
Julia J. Bell, Tania E. Sargeant, and John A. Watson

1759 **Purification and general properties of guanosine 3′:5′-monophosphate-dependent protein kinase from guinea pig fetal lung.**
J. F. Kuo, Wu-Nan Kuo, Mamoru Shoji, Craig W. Davis, Virginia L. Seery, and Thomas E. Donnelly, Jr.

1767 **A deoxyribonucleic acid kinase from nuclei of rat liver. Purification and properties.**
Cora J. Levin and Steven B. Zimmerman

1775 **Essential arginyl residues in mitochondrial adenosine triphosphatase.**
Frank Marcus, Sheldon M. Schuster, and Henry A. Lardy

1781 **Antiserum monospecific to hepatic ornithine decarboxylase.**
Theoharis C. Theoharides and Zoe N. Canellakis

1785 **Hydrogen exchange at the amide group of reduced pyridine nucleotides and the inhibition of that reaction by dehydrogenases.**
Dallas G. Cross, Allister Brown, and Harvey F. Fisher

1789 **Basement membrane procollagen is not converted to collagen in organ cultures of parietal yolk sac endoderm.**
Ronald R. Minor, Charles C. Clark, Elaine L. Strause, Thomas R. Koszalka, Robert L. Brent, and Nicholas A. Kefalides

1795 **Binding interactions between radiolabeled *Escherichia coli* Elongation Factor G and the ribosome.**
Lillian Lin and James W. Bodley

1799 **The ribosomal proteins of *Saccharomyces cerevisiae*. Phosphorylated and exchangeable proteins.**
Samuel Zinker and Jonathan R. Warner

1808 **Group fractionation of eukaryotic ribosomal proteins.**
Ekkehard Collatz, Alan Lin, Georg Stöffler, Kunio Tsurugi, and Ira G. Wool

1817 **Induction of multiple forms of mouse liver cytochrome P-450. Evidence for genetically controlled *de novo* protein synthesis in response to treatment with β-naphthoflavone or phenobarbital**
David A. Haugen, Minor J. Coon, and Daniel W. Nebert

1828 **The flagellar membrane of *Ochromonas danica*. Isolation and electrophoretic analysis of the flagellar membrane, axonemes, and mastigonemes.**
Lei L. Chen and Thomas H. Haines

1835 **The flagellar membrane of *Ochromonas danica*. Lipid composition.**
Lei L. Chen, Manuel Pousada, and Thomas H. Haines

COMMUNICATION

1843 **Purification and properties of a new polypeptide chain elongation factor, EF-1β, from pig liver.**
Kentaro Iwasaki, Kazuo Motoyoshi, Shigekazu Nagata, and Yoshito Kaziro

ADDITIONS AND CORRECTIONS

1846 **Interaction of adenine nucleotides with multiple binding sites on beef heart mitochondrial adenosine triphosphatase. Vol. 250 (1975) 6640–6647.**
Neil E. Garrett and Harvey S. Penefsky

1846 **Interaction of vinblastine with calf brain microtubule protein. Vol. 250 (1975) 9276–9282.**
James C. Lee, Debra Harrison, and Serge N. Timasheff

April 10, 1976

1847 **Subunit structure of AMP-deaminase from chicken and rabbit skeletal muscle.**
Albert Boosman and Oscar P. Chilson

1853 **Fluorine-19 as a covalent active site-directed magnetic resonance probe in aspartate transaminase.**
Marino Martinez-Carrion, Juan C. Slebe, Brian Boettcher, and Angel M. Relimpio

1859 **Leucine 2,3-aminomutase, an enzyme of leucine catabolism.**
J. Michael Poston

1864 **Surface alterations in calf lymphocytes oxidized by sodium periodate.**
Cary A. Presant and Susan Parker

1871 **Spot hemoglobin. Studies on the root effect hemoglobin of a marine teleost.**
Celia Bonaventura, Bolling Sullivan, Joseph Bonaventura, and Maurizio Brunori

1877 **Site-site interactions among insulin receptors. Characterization of the negative cooperativity.**
Pierre De Meyts, A. Raffaele Bianco, and Jesse Roth

1889 **Purification and properties of a protein factor stimulating peptidoglycan synthesis in toluene- and LiCl-treated *Bacillus megaterium* cells.**
Akio Taku and David P. Fan

1896 **Endonuclease II of *Escherichia coli* is exonuclease III.**
Bernard Weiss

1902 **Site-specific interaction of Qβ host factor and ribosomal protein S1 with Qβ and R17 bacteriophage RNAs.**
Allen W. Senear and Joan Argetsinger Steitz

1913 **Rabbit skeletal muscle glycogen synthase. I. Relationship between phosphorylation state and kinetic properties.**
Peter J. Roach, Yasuhito Takeda, and Joseph Larner

1920 **Rabbit skeletal muscle glycogen synthase. II. Enzyme phosphorylation state and effector concentrations as interacting control parameters.**
Peter J. Roach and Joseph Larner

1926 **Preparation and characterization of eukaryotic initiation factor EIF-3. Formation of binary (EIF-3·Met-tRNA$_f$) and ternary (EIF-3·Met-tRNA$_f$·GTP) complexes.**
Rajinder Singh Ranu and Ira G. Wool

1936 **Complete amino acid analysis of proteins from a single hydrolysate.**
Richard J. Simpson, Marjorie R. Neuberger, and T.-Y. Liu

1941 **Primary structure of streptococcal proteinase. I. Isolation, composition, and amino acid sequences of the tryptic and chymotryptic peptides of cyanogen bromide fragments 1 to 4.**
Alexander A. Kortt, Jean R. Wysocki, and T.-Y. Liu

1948 **Primary structure of streptococcal proteinase. II. Isolation, composition, and amino acid sequences of the tryptic and chymotryptic peptides of cyanogen bromide fragment 5.**
Joseph Y. Tai and T.-Y. Liu

1955 **Primary structure of streptococcal proteinase. III. Isolation of cyanogen bromide peptides: complete covalent structure of the polypeptide chain.**
Joseph Y. Tai, Alexander A. Kortt, T.-Y. Liu, and S. D. Elliott

1960 **Effect of estrogen on gene expression in the chick oviduct. Comparative aspects of RNA chain initiation in chromatin using homologous *versus Escherichia coli* RNA polymerase.**
Ming-Jer Tsai, Howard C. Towle, Steve E. Harris, and Bert W. O'Malley

1969 **Bovine secretory component. Isolation, molecular size and shape, composition, and NH_2-terminal amino acid sequence.**
Ramzy S. Labib, Nickolas J. Calvanico, and Thomas B. Tomasi

1975 **Investigations of equilibrium complexes of myosin subfragment 1 with the manganous ion and adenosine diphosphate using magnetic resonance techniques.**
Clive R. Bagshaw and George H. Reed

1984 **Kinetic study of the action of snake venom phospholipase A_2 on human serum high density lipoprotein 3.**
Nikhil M. Pattnaik, Ferenc J. Kézdy, and Angelo M. Scanu

1991 **Cytochrome c_1 of bakers' yeast. I. Isolation and properties.**
Elliott Ross and Gottfried Schatz

1997 **Cytochrome c_1 of bakers' yeast. II. Synthesis on cytoplasmic ribosomes and influence of oxygen and heme on accumulation of the apoprotein.**
Elliott Ross and Gottfried Schatz

2005 **Purification and characterization of a prokaryotic glycoprotein from the cell envelope of *Halobacterium salinarium*.**
Matthew F. Mescher and Jack L. Strominger

2015 **Regulation of glycogen metabolism in astrocytoma and neuroblastoma cells in culture.**
Janet V. Passonneau and Sandra K. Crites

2023 **A reaction mechanism from steady state kinetic studies for *O*-acetylserine sulfhydrylase from *Salmonella typhimurium* LT-2.**
Paul F. Cook and Randolph T. Wedding

2030 **Assembly of the sarcoplasmic reticulum. Biosynthesis of the adenosine triphosphatase in rat skeletal muscle cell culture.**
Paul C. Holland and David H. MacLennan

2037 **Analysis of the arrangement of protein components in the sarcoplasmic reticulum of rat skeletal muscle.**
Byung P. Yu, Edward J. Masaro, and Thomas F. Morley

2044 **Analysis of ribonuclease-nucleotide interactions by quantitative affinity chromatography.**
Irwin M. Chaiken and Hope C. Taylor

2049 **Accumulation of analog of phosphocreatine in muscle of chicks fed 1-carboxymethyl-2-iminoimidazolidine (cyclocreatine).**
Garth R. Griffiths and James B. Walker

2055 **Regulation of steady state level of phosphoenzyme and ATP synthesis in sarcoplasmic reticulum vesicles during reversal of the Ca^{2+} pump.**
Leopoldo de Meis

2063 **Acetyl coenzyme A carboxylase. Circular dichroism studies of *Escherichia coli* biotin carboxyl carrier protein.**
R. Ray Fall, Michael Glaser, and P. Roy Vagelos

2070 **Termination of procollagen chain synthesis by puromycin. Evidence that assembly and secretion require a COOH-terminal extension.**
Joel Rosenbloom, Russell Endo, and Margaret Harsch

2077 **Pulse radiolytic investigation of single heme group reduction in human methemoglobin.**
John R. Clement, Neville T. Lee, Michael H. Klapper, and Leon M. Dorfman

2083 **Enzymatic attack on side chains of synthetic polymers. Chymotrypsin-catalyzed hydrolysis of specific substrate groups attached to acrylamide or acrylic acid co-polymers.**
Tieh-Yin Fu and Herbert Morawetz

2087 **Fragments formed by the side chain cleavage of a 20-aryl analog of 20α-hydroxycholesterol by adrenal mitochondria.**
Richard B. Hochberg, Patrick D. McDonald, Mark Feldman, and Seymour Lieberman

2094 **Thermodynamic and EPR characteristics of two ferredoxin-type iron-sulfur centers in the succinate-ubiquinone reductase segment of the respiratory chain.**
Tomoko Ohnishi, John C. Salerno, Daryl B. Winter, Joyce Lim, Chan A. Yu, Linda Yu, and Tsoo E. King

2105 **Thermodynamic and EPR characteristics of a HiPIP-type iron-sulfur center in the succinate dehydrogenase of the respiratory chain.**
Tomoko Ohnishi, Joyce Lim, Daryl B Winter, and Tsoo E. King

2110 **Transmembrane asymmetry of vesicle lipids.**
Philip L. Yeagle, William C. Hutton, R. Bruce Martin, Barry Sears, and Ching-hsien Huang

2113 **Self-association of cytochrome b_5 in aqueous solution. Gel filtration and ultracentrifugational studies.**
Michael A. Calabro, Jonathan T. Katz, and Peter W. Holloway

2119 **Purification and properties of a highly potent antitumor glutaminase-asparaginase from *Pseudomonas 7A*.**
Joseph Roberts

2124 **Purification and physical characterization of nucleic acid helix-unwinding proteins from calf thymus.**
Glenn Herrick and Bruce Alberts

2133 **Nucleic acid helix-coil transitions mediated by helix-unwinding proteins from calf thymus.**
Glenn Herrick and Bruce Alberts

2142 **Single-stranded DNA structure and DNA polymerase activity in the presence of nucleic acid helix-unwinding proteins from calf thymus.**
Glenn Herrick, Hajo Delius, and Bruce Alberts

2147 **Biochemical and ultrastructural hepatic changes during vitamin B_{12} deficiency in animals and man.**
Eugene P. Frenkel, Amal Mukherjee, Charles R. Hackenbrock, and Paul A. Srere

2155 **Studies on the mechanism by which hepatic citrate synthase activity increases in vitamin B_{12} deprivation.**
Amal Mukherjee, Paul A. Srere, and Eugene P. Frenkel

2161 **Phosphorylation of axonemal proteins in *Chlamydomonas reinhardtii*.**
Gianni Piperno and David J. Luck

2168 **Characterization of DNA polymerase induced by bacteriophage T5 with DNA containing single strand breaks.**
Robert K. Fujimura and Barbara C. Roop

2174 **Appendix. Electron micrographs of nicked DNA replicated by T5 DNA polymerase.**
Robert K. Fujimura and D. P. Allison

COMMUNICATIONS

2176 **Outer membrane of *Salmonella*. Isolation of protein complex that produces transmembrane channels.**
Taiji Nakae

2179 **Regulation of secretion from the adrenal medulla. Evidence for adenylate cyclase activity in secretory vesicle membranes.**
Oren Zinder, Olga Nikodijevic, Philip G. Hoffman, and Harvey B. Pollard

2182 ***In vivo* inhibition of superoxide dismutase in mice by diethyldithiocarbamate.**
Richard E. Heikkila, Felicitas S. Cabbat, and Gerald Cohen

2186 **Evidence for a new intermediate state in the mechanism of $(Na^+ + K^+)$-adenosine triphosphatase.**
Jeffrey P. Froehlich, R. Wayne Albers, George J. Koval, Robert Goebel, and Mones Berman

2189 **Internal pH of isolated chromaffin vesicles.**
Robert G. Johnson and Antonio Scarpa

2192 **Differences in properties of cytosol and membrane-derived protein kinases.**
Isao Uno, Tetsufumi Ueda, and Paul Greengard

April 25, 1976

2197 **Amino acid sequence of *Paracoccus denitrificans* cytochrome c_{550}.**
Russell Timkovich, Emanuel Margoliash, and Richard E. Dickerson

2207 **Association-dissociation behavior and subunit structure of heat-released n^{2+}rate reductase from *Escherichia coli*.**
Karen Lund and John A. DeMoss

2217 **Demonstration and possible function of NADH:NAD^+ transhydrogenase from *Ascaris* muscle mitochondria.**
Peter Köhler and Howard J. Saz

2226 **Characterization of proteins from *Ascaris lumbricoides* which bind specifically to carboxypeptidase.**
Gene A. Homandberg and Robert J. Peanasky

2234 **Pigeon liver amidophosphoribosyltransferase. Ligand-induced alterations in molecular and kinetic properties.**
Roichi Itoh, Edward W. Holmes, and James B. Wyngaarden

2241 **Biohydrogenation of unsaturated fatty acids. Hydrogenation by cell-free preparations of *Butyrivibrio fibrisolvens*.**
William James Hunter, Frederick C. Baker, Ira S. Rosenfeld, Jody B. Keyser, and Samuel B. Tove

2248 **^{13}C NMR spectroscopy of labeled pyridoxal 5′-phosphate. Model studies, D-serine dehydratase, and L-glutamate decarboxylase.**
Marion H. O'Leary and James R. Payne

2255 **Glucose-6-phosphate dehydrogenase. Purification and partial characterization.**
Mohammed I. Kanji, Myron L. Toews, and W. Robert Carper

2258 **A kinetic study of glucose-6-phosphate dehydrogenase.**
Mohammed I. Kanji, Myron L. Toews, and W. Robert Carper

2263 **α-Aminomethylglutarate, a β-amino acid analog of glutamate that interacts with glutamine synthetase and the enzymes that catalyze glutathione synthesis.**
Ronald Sekura, Margaret Hochreiter, and Alton Meister

2271 **Studies of human kidney γ-glutamyl transpeptidase. Purification and structural, kinetic, and immunological properties.**
Steven P. Miller, Yogesh C. Awasthi, and Satish K. Srivastava

2279 **Evidence for a phospholipid requirement in the specific binding of glucocorticoids to receptors of fibroblasts and thymic lymphocytes.**
Hal F. Schulte, Carl J. Nielsen, Julianne J. Sando, and William B. Pratt

2290 **Raman spectra of a solid antifreeze glycoprotein and its**

liquid and frozen aqueous solutions.
Yoshio Tomimatsu, James R. Scherer, Yin Yeh, and Robert E. Feeney

2299 **Mode of action of bottromycin A_2. Release of aminoacyl- or peptidyl-tRNA from ribosomes.**
Tadahiko Otaka and Akira Kaji

2307 **Transient state kinetic effects of calcium ion on sarcoplasmic reticulum adenosine triphosphatase.**
Jeffrey P. Froehlich and Edwin W. Taylor

2316 **Rat adipose tissue glycogen synthase. Evidence for multiple discrete kinetic species and their interconversion.**
Ronald D. Eichner

2323 **Purification and physiological role of a peptide stablizing factor of rat liver phosphofructokinase.**
George A. Dunaway and Harold L. Segal

2330 **Nucleoside phosphotransferase from *Erwinia herbicola*, a new membrane-bound enzyme.**
Helen M. Chao

2334 **The effect of superhelicity on the interaction of histone f1 with closed circular duplex DNA.**
Tikva Vogel and Maxine F. Singer

2339 **Kinetics of the hemerythrin-oxygen interaction.**
Dirk J. A. de Waal and Ralph G. Wilkins

2344 **Guanylate cyclase and cyclic guanosine 3′:5′-monophosphate phosphodiesterase activities and cyclic guanosine 3′:5′-monophosphate levels in normal and transformed fibroblasts in culture.**
John A. Nesbitt, III, Wayne B. Anderson, Zachary Miller, Thomas R. Russell, Denis Gospodarowicz, and Ira Pastan

2353 **Specificity of α-chymotrypsin with exposed carboxyl groups blocked.**
Phyllis E. Johnson, James A. Stewart, and Kenneth G. D. Allen

2363 **Evidence for the coordinate control of activity of liver glycogen synthase and phosphorylase by a single protein phosphatase.**
S. Derek Killilea, Howard Brandt, Ernest Y. C. Lee, and William J. Whelan

2369 **Localization of the substrate and oxalacetate binding site of succinate dehydrogenase.**
William C. Kenney, Patrick C. Mowery, Richard L. Seng, and Thomas P. Singer

2374 **Solubilization and characterization of the β-adrenergic receptor binding sites of frog erythrocytes.**
Marc G. Caron and Robert J. Lefkowitz

2385 **α-L-Fucopyranosylceramide, a novel glycolipid accumulated in some of the human colon tumors.**
Kiyohiro Watanabe, Toshiko Matsubara, and Sen-itiroh Hakomori

2388 **Increased intestinal chromatin template activity. Influence of 1α,25-dihydroxyvitamin D_3 and hormone·receptor complexes.**
Joseph E. Zerwekh, Thomas J. Lindell, and Mark R. Haussler

2395 **Interaction of swine lipoproteins with the low density lipoprotein receptor in human fibroblasts.**
Thomas P. Bersot, Robert W. Mahley, Michael S. Brown, and Joseph L. Goldstein

2399 **Terminal deoxynucleotidyltransferase. Serological studies and radioimmunoassay.**
Patrick C. Kung, Paul D. Gottlieb, and David Baltimore

2405 **Cleavage of phycocyanobilin from C-phycocyanin. Separation and mass spectral identification of the products.**
Robert J. Beuhler, Robert C. Pierce, Lewis Freidman, and Harold W. Siegelman

2412 **Nuclear magnetic relaxation studies of the conformation of adenosine 5′-triphosphate on pyruvate kinase from rabbit muscle.**
Donald L. Sloan and Albert S. Mildvan

2421 **Chromium(III)-adenosine triphosphate as a paramagnetic probe to determine intersubstrate distances on pyruvate kinase. Detection of an active enzyme·metal·ATP·metal complex.**
Raj K. Gupta, Chien H. Fung, and Albert S. Mildvan

2431 **Arrangement and conformations of substrates at the active site of pyruvate kinase from model building studies based on magnetic resonance data.**
Albert S. Mildvan, Donald L. Sloan, Chien H. Fung, Raj K. Gupta, and E. Melamud

2435 **Purification and properties of proline reductase from *Clostridium sticklandii*.**
Belinda Seto and Thressa C. Stadtman

2440 **Transfer ribonucleic acid biosynthesis. Substrate specificity of ribonuclease P.**
Francis J. Schmidt, J. G. Seidman, and Robert M. Bock

2446 **Reconstitution and characterization of the adenine nucleotide transporter derived from bovine heart mitochondria.**
Howard G. Shertzer and Efraim Racker

2453 **Purification and properties of the proton-translocating adenosine triphosphatase complex of bovine heart mitochondria.**
Ramon Serrano, Baruch I. Kanner, and Efraim Racker

2462 **Involvement of the glucose enzymes II of the sugar phosphotransferase system in the regulation of adenylate cyclase by glucose in *Escherichia coli*.**
James P. Harwood, Celia Gazdar, Chandan Prasad, Susan J. Curtis, Wolfgang Epstein, and Alan Peterkofsky

2469 **Differentiation of lymphoid cells. A selective anti-mitogenic component of normal serum which inhibits the induction of immunoglobulin production.**
Daniel H. Zimmerman and Milton Kern

2475 **An antimutator deoxyribonucleic acid polymerase. I. Purification and properties of the enzyme.**
Ko-Yu Lo and Maurice J. Bessman

2480 **An antimutator deoxyribonucleic acid polymerase. II. *In vitro* and *in vivo* studies of its temperature sensitivity.**
Ko-Yu Lo and Maurice J. Bessman

2487 **Factors affecting the acyl selectivities of acyltransferases in *Escherichia coli*.**
Harumi Okuyama, Kazuyo Yamada, Hiroh Ikezawa, and Salih J. Wakil

2493 **Different mechanisms of energy coupling for transport of various amino acids in cells of *Mycobacterium phlei*.**
Rajendra Prasad, Vijay K. Kalra, and Arnold F. Brodie

2499 **Specificity of bacterial ribosomes and messenger ribonucleic acids in protein synthesis reactions *in vitro*.**
Michael R. Stallcup, William J. Sharrock, and Jesse C. Rabinowitz

2511 **Utilization of exogenous GDP-mannose for the synthesis of mannose-containing lipids and glycoproteins by oviduct cells.**
Douglas K. Struck and William J. Lennarz

2520 **ATPase activity required for termination of transcription by the *Escherichia coli* protein factor ρ.**
Bruce H. Howard and Benoit de Crombrugghe

2525 **Solubilization of thyroid peroxidase by nonionic detergents.**
Joseph T. Neary, Betty Davidson, Ann Armstrong, H. Vincent Strout, Morris Soodak, and Farahe Maloof

2530 **Evidence for the association of L-asparaginase with cytomembrane components in the guinea pig liver soluble fraction.**
Helga M. Suld

COMMUNICATION

2536 **Mechanism of the thrombin-mediated burst in oxygen consumption by human platelets.**
Walter C. Pickett and Phin Cohen

ADDITIONS AND CORRECTIONS

2539 **Purification of mRNA guanylyltransferase and mRNA (guanine-7-)methyltransferase from vaccinia virions. Vol.**

250 (1975) 9322–9329.
Scott A. Martin, Enzo Paoletti, and Bernard Moss

2539 **Amino acid transport by aggregates of cultured chicken hearts cells. Effect of insulin. Vol. 250 (1975) 9381–9390.**
Louis J. Elsas, Frances B. Wheeler, Dean J. Danner, and Robert L. DeHaan

2540 **Reconstitution of Bacillus *stearothermophilus* 50 S ribosomal subunits from purified molecular components. Vol. 251 (1976) 209–221.**
Jeffrey A. Cohlberg and Masayasu Nomura

iii **Cumulative author index. Numbers 1 through 8.**

May 10, 1976

2541 **Induced polypeptide synthesis during the development of bacterial bioluminescence.**
George A. Michaliszyn and Edward A. Meighen

2550 **Flavin-oxygen derivatives involved in hydroxylation by *p*-hydroxybenzoate hydroxylase.**
Barrie Entsch, David P. Ballou, and Vincent Massey

2564 **Carbon 13 magnetic resonance studies of DL-2-(α-hydroxyethyl)thiamin and related compounds. Relation of kinetic acidity to electronic factors in thiamin catalysis.**
Anthony A. Gallo and Henry Z. Sable

2571 **Immunochemical studies of serine dehydratase and ornithine aminotransferase regulation in rat liver *in vivo*.**
J. Emory Morris and Carl Peraino

2579 **Oxygen and carbon monoxide kinetics of *Glycera dibranchiata* monomeric hemoglobin.**
Bette Seamonds, James A. McCray, Lawrence J. Parkhurst, and Paul D. Smith

2584 **Analysis of phosphate metabolites, the intracellular pH, and the state of adenosine triphosphate in intact muscle by phosphorus nuclear magnetic resonance.**
C. Tyler Burt, Thomas Glonek, and Michael Bárány

2592 **Appearance of rapidly labeled, high molecular weight RNA in nuclear ribonucleoprotein. Release from chromatin and association with protein.**
Leonard H. Augenlicht and Martin Lipkin

2600 **Human deoxythymidine kinase. I. Purification and general properties of the cytoplasmic and mitochondrial isozymes derived from blast cells of acute myelocytic leukemia.**
Lih-Syng Lee and Yung-Chi Cheng

2605 **Deoxythymidine kinase induced in HeLa TK⁻ cells by herpes simplex virus type I and type II. II. Purification and characterization.**
Yung-Chi Cheng and Michael Ostrander

2611 **Cr(III) complexes as active site probes of yeast inorganic pyrophosphatase.**
James W. Sperow and Larry G. Butler

2613 **5′ → 3′-Exonucleases of bacteriophage T4.**
Kenji Shimizu and Mutsuo Sekiguchi

2620 **Characterization of KB cell alkaline phosphatase. Evidence of similarity to placental alkaline phosphatase.**
Marilyn A. Ludueña and Howard H. Sussman

2629 **Purification of prostaglandin endoperoxide synthetase from bovine vesicular gland microsomes.**
Tsumoru Miyamoto, Nobuchika Ogino, Shozo Yamamoto, and Osamu Hayaishi

2637 **Chloral hydrate causes breakdown of polysomes in *Chlamydomonas reinhardi in vivo*.**
John Cross and Daniel McMahon

2644 **Nuclear magnetic resonance titration curves of histidine ring protons. A direct assignment of the resonances of the active site histidine residues of ribonuclease.**
Heisaburo Shindo, Melvin B. Hayes, and Jack S. Cohen

2648 **Nuclear magnetic resonance titration curves of histidine ring protons. Ribonuclease S-peptide and S-protein.**
Heisaburo Shindo and Jack S. Cohen

2653 **Hormone-stimulated desensitization of hormone-dependent adenylyl cyclase. Dual action of luteinizing hormone on pig Graafian follicle membranes.**
Joël Bockaert, Mary Hunzicker-Dunn, and Lutz Birnbaumer.

2664 **Effects of formylation of vinyl side chains of heme on optical and ligand binding properties of horse heart ferric myoglobin.**
Masanori Sono and Toshio Asakura

2671 **Basis of microheterogeneity of myelin basic protein.**
Frank C.-H. Chou, C.-H. Jen Chou, Raymond Shapira, and Robert F. Kibler

2680 **Structure and function of β-glucosidases in *Dictyostelium discoideum*.**
Randall L. Dimond and William F. Loomis

2688 **An essential arginine residue at the active site of aspartate transcarbamylase.**
Evan R. Kantrowitz and William N. Lipscomb

2696 **Physical and kinetic properties of homogeneous bovine lens aldose reductase.**
Charles M. Sheaff and Clyde C. Doughty

2703 **Purification and characterization of bovine placental lactogen.**
Franklyn F. Bolander, Jr., and Robert E. Fellows

2709 **Metabolism of bile alcohols in the perfused rabbit liver.**
Bertram I. Cohen, Taiju Kuramoto, Marcus A. Rothschild, and Erwin H. Mosbach

2716 **The *in vitro* metabolism of mevalonate by sterol and nonsterol pathways.**
Michael Righetti, Millie Hughes Wiley, Patricia A. Murrill, and Marvin D. Siperstein

2722 **L-Asparaginase of *Klebsiella aerogenes*. Activation of its synthesis by glutamine synthetase.**
Arthur D. Resnick and Boris Magasanik

2729 **α-Amanitin resistance of RNA polymerase II in mutant Chinese hamster ovary cell lines.**
C. James Ingles, Apostolia Guialis, Juliana Lam, and Louis Siminovitch

2735 **Characterization of porcine neurophysin III. Its resemblance and possible relationship to porcine neurophysin I.**
Ting-Chi Wuu and Sara E. Crumm

2740 **Function and structure in phage Qβ RNA replicase. Association of EF-Tu·Ts with the other enzyme subunits.**
Thomas Blumenthal, Richard A. Young, and Stanley Brown

2744 **Immunochemical analysis of the functions of the subunits of phage Qβ ribonucleic acid replicase.**
Gordon G. Carmichael, Terry A. Landers, and Klaus Weber

2749 **Function and structure in ribonucleic acid phage Qβ ribonucleic acid replicase. Effect of inhibitors of EF-Tu on ribonucleic acid synthesis and renaturation of active enzyme.**
Stanley Brown and Thomas Blumenthal

2754 **The reduced nitcotinamide adenine dinucleotide-activated phosphoenolpyruvate carboxylase from *Pseudomonas* MA. Correlation of allosteric properties with changes in the sedimentation behavior.**
Robert H. Millay, Jr. and Louis B. Hersh

2761 **Binding and degradation of insulin by human peripheral granulocytes. Demonstration of specific receptors with high affinity.**
Rolf D. Fussganger, C. Ronald Kahn, Jesse Roth, and Pierre De Meyts

2770 **Vitamin K-dependent carboxylase. Requirements of the rat liver microsomal enzyme system.**
James A. Sadowski, Charles T. Esmon, and John W. Suttie

2777 **Magnetic resonance study of the three-dimensional structure of creatine kinase-substrate complexes. Implications for substrate specificity and catalytic mechanism.**
Alan C. McLaughlin, John S. Leigh, Jr., and Mildred Cohn

2788 **Cooperativity in the dissociation of nitric oxide from hemoglobin.**
Edwin G. Moore and Quentin H. Gibson

2795 **Polyamine transport and metabolism in mouse mammary gland. General properties and hormonal regulation.**
Kazutaka Kano and Takami Oka

2801 **Cell-free synthesis of a large translation product of prolactin messenger RNA.**
Richard A. Maurer, Roger Stone, and Jack Gorski

2808 **Purification and properties of the nuclease inhibitor of *Aspergillus oryzae* and kinetics of its interaction with crystalline nuclease O.**
Takeshi Uozumi, Katsuhiko Ishino, Teruhiko Beppu, and Kei Arima

2814 **Structural and functional interdependence of the protomers of *Escherichia coli* K12 tryptophanase during binding of pyridoxal 5′-phosphate.**
Olivier Raibaud and Michel E. Goldberg

2820 **The dissociated tryptophanase subunit is inactive.**
Olivier Raibaud and Michel E. Goldberg

2825 **Chemical cross-linking of myosin. Disposition of the globular heads.**
Anne d'Albis and Walter Gratzer

2831 **Characterization of a cytochrome P-450-dependent steroid hydroxylase system present in *Bacillus megaterium*.**
Anders Berg, Kjell Carlström, Jan-Åke Gustafsson, and Magnus Ingelman-Sundberg

2839 **Heterogeneity of cytochrome P-450 in rat testis microsomes.**
George Betz, Phoebe Tsai, and Rebecca Weakley

2842 **Cell-free synthesis of a prolactin precursor directed by mRNA from cultured rat pituitary cells.**
Glen A. Evans and Michael G. Rosenfeld

2848 **Protein synthesis in plant leaf tissue. The sites of synthesis of the major proteins.**
Anthony R. Cashmore

2854 **β-Galactosidase messenger RNA made during recovery from inhibition of protein synthesis is not translated.**
Herbert L. Ennis and Katharine D. Kievitt

COMMUNICATIONS

2861 **Stoichiometry of carbon monoxide binding by cytochrome *c* oxidase.**
David C. Wharton and Quentin H. Gibson

2863 **Transition state analogs for thiamin pyrophosphate-dependent enzymes.**
Jan A. Gutowski and Gustav E. Lienhard

May 25, 1976

2867 **Exchange and stability of HeLa ribosomal proteins *in vivo*.**
Stanley M. Lastick and Edwin H. McConkey

2876 **Relative stoichiometry of ribosomal proteins in HeLa cell nucleoli.**
Wayne F. Phillips and Edwin H. McConkey

2882 **Triglyceride, diglyceride, monoglyceride, and cholesterol ester hydrolases in chicken adipose tissue activated by adenosine 3′:5′-monophosphate-dependent protein kinase. Chromatographic resolution and immunochemical differentiation from lipoprotein lipase.**
John C. Khoo, Daniel Steinberg, John J. Huang, and P. Roy Vagelos

2891 **Role of changes in protein degradation in the growth of regenerating livers.**
Oscar A. Scornik and Violeta Botbol

2898 **Methylated, blocked 5′ termini of yeast mRNA.**
Conjeevaram E. Sripati, Yoram Groner, and Jonathan R. Warner

2905 **Characterization of [^{3}H]cytochalasin B binding to the fat cell plasma membrane.**
Michael P. Czech

2911 **Subunit and chemical composition of citrate lyase from *Klebsiella pneumoniae*.**
Manoranjan Singh, Paul A. Srere, David G. Klapper, and J. Dona'd Capra

2916 **Interaction of anions and divalent metal ions with phosphoenolpyruvate carboxykinase.**
Larry A. Bentle and Henry A. Lardy

2922 **A protein factor required for activation of phosphoenolpyruvate carboxykinase by ferrous ions.**
Larry A. Bentle, Roy E. Snoke, and Henry A. Lardy

2929 **Binding studies of polypeptide hormones to bovine neurophysins.**
Jay A. Glasel, Victor J. Hruby, Jeffrey F. McKelvy, and Arno F. Spatola

2938 **Thymidylate nucleotide supply for mitochondrial DNA synthesis in mouse L-cells. Effect of 5-fluorodeoxyuridine and methotrexate in thymidine kinase plus and thymidine kinase minus cells.**
Daniel Bogenhagen and David A. Clayton

2945 **Synthesis of human placental lactogen and human chorionic gonadotropin by polyribosomes and messenger RNAs from early and full term placentas.**
Meera Chatterjee, B. Suren Baliga, and Hamish N. Munro

2952 **Intracellular retinol-binding proteins from bovine pigment epithelial and photoreceptor cell fractions. Purification of high molecular weight lipoglycoproteins.**
Joram Heller

2958 **6-Phosphofructokinase (pyrophosphate). Properties of the enzyme from *Entamoeba histolytica* and its reaction mechanism.**
Richard E. Reeves, Ramón Serrano, and Dorothy J. South

2963 **Inhibition of bovine hepatic fructose-1,6-diphosphatase by substrate analogs.**
Carol J. Marcus

2967 **The polysaccharides from heterocyst and spore envelopes of a blue-green alga. Methylation analysis and structure of the backbones.**
Liliana Cardemil and C. Peter Wolk

2976 **Lipophosphonoglycan of the plasma membrane of *Acanthamoeba castellanii*. Inositol and phytosphingosine content and general structural features.**
Dorr G. Dearborn, Sharron Smith, and Edward D. Korn

2983 **The fructose 6-phosphate site of phosphofructokinase. Epimeric specificity.**
Theodore A. W. Koerner, Jr., Ronald J. Voll, Abdel-Latif E. Ashour, and Ezzat S. Younathan

2987 **Studies on the role of cyclic guanosine 3′:5′-monophosphate and extracellular Ca^{2+} in the regulation of glycogenolysis in rat liver cells.**
Richard H. Pointer, Fred R. Butcher, and John N. Fain

2993 **Genetic variants of human erythrocyte glucose-6-phosphate dehydrogenase. Kinetic and thermodynamic parameters of variants A, B, and A^- in relation to quaternary structure.**
A. Olaniyi G. Babalola, John G. Beetlestone, and Lucio Luzzatto

3003 **The kinetic mechanism of bovine milk galactosyltransferase. The role of α-lactalbumin.**
John E. Bell, Thomas A. Beyer, and Robert L. Hill

3014 **Induction of amino acid transport in primary cultures of adult rat liver parenchymal cells by insulin.**
Rolf F. Kletzien, Michael W. Pariza, Joyce E. Becker, Van R. Potter, and Fred R. Butcher

3021 **Studies on tyrosine residues in porcine muscle adenylate kinase. Circular dichroism spectra and chemical modification with tetranitromethane.**
Michio Yazawa and Lafayette H. Noda

3027 **Regulation of malic enzyme synthesis by insulin, triiodothyronine, and glucagon in liver cells in culture.**
Alan G. Goodridge and Thomas G. Adelman

3033 **Antifreeze glycoproteins from antarctic fish. Inactivation**

by borate.
Ahmed I. Ahmed, Yin Yeh, David T. Osuga, and Robert E. Feeney

3037 **Binding of [^{3}H]prostaglandin E_1 to putative receptors linked to adenylate cyclase of cultured cell clones.**
Laurence L. Brunton, Richard A. Wiklund, Pamela M. Van Arsdale, and Alfred G. Gilman

3045 **Mechanism of superoxide anion generation by the interaction of phenylhydrazine with hemoglobin.**
B. Goldberg, A. Stern, and J. Peisach

3052 **A new vitamin K-dependent protein. A phospholipid-binding zymogen of a serine esterase.**
Charles T. Esmon, Johan Stenflo, John W. Suttie, and Craig M. Jackson

3057 **Affinity labeling of a previously undetected essential lysyl residue in class I fructose bisphosphate aldolase.**
Fred C. Hartman and James Page Brown

3063 **Synthesis and degradation of folate reductase in sensitive and methotrexate-resistant lines of S-180 cells.**
Frederick W. Alt, Rodney E. Kellems, and Robert T. Schimke

3075 **Altered regulation of the rate of synthesis of dihydrofolate reductase in methotrexate-resistant hamster cells.**
Urs J. Hänggi and John W. Littlefield

3081 **Studies on the *poky* mutant of *Neurospora crassa*. Fingerprint analysis of mitochondrial ribosomal RNA.**
Alan M. Lambowitz and David J. L. Luck

3096 **Adipocyte β-adrenergic receptors. Identification and subcellular localization by (−)-[^{3}H]dihydroalprenolol binding.**
Lewis T. Williams, Leonard Jarett, and Robert J. Lefkowitz

3105 ***In vitro* translation and estradiol-17β induction of *Xenopus laevis* vitellogenin messenger RNA.**
David J. Shapiro, Hollis J. Baker, and David T. Stitt

3112 **Roles of individual *mgl* gene products in the β-methylgalactoside transport system of *Escherichia coli* K12.**
April R. Robbins, Rosario Guzman, and Boris Rotman

3117 **Acetate kinase from *Veillonella alcalescens*. Regulation of enzyme activity by succinate and substrates.**
Christine M. Bowman, Robert O. Valdez, and Jonathan S. Nishimura

3122 **The primary structure of *Bacillus subtilis* and *Bacillus stearothermophilus* 5 S ribonucleic acids. Sequence variations between polynucleotides derived from mesophilic and thermophilic organisms.**
Charles A. Marotta, Frederick Varricchio, Issar Smith, Sherman M. Weissman, Mitchell L. Sogin, and Norman R. Pace

3128 **Comparative studies of lipase and phospholipase A_2 acting on substrate monolayers.**
R. Verger, J. Rietsch, M. C. E. van Dam-Mieras, and G. H. de Haas

3134 **Purification and characterization of a repressible alkaline phosphatase from *Thermus aquaticus*.**
Min-fung Yeh and John M. Trela

3140 **Association of glycogenolysis with cardiac sarcoplasmic reticulum.**
Mark L. Entman, Kenichi Kaniike, Margaret A. Goldstein, Thomas E. Nelson, Edward P. Bornet, Thomas W. Futch, and Arnold Schwartz

3147 **The folding pathway of reduced lysozyme.**
William L. Anderson and Donald B. Wetlaufer

3154 **Formation of three-dimensional structure in protein fragments. Reactivation of reduced hen egg lysozyme fragment 1–127.**
Eric R. Johnson, Kyung-Ja Oh, and Donald B. Wetlaufer

3158 **Stimulation of 25-hydroxyvitamin D_3-1α-hydroxylase by phosphate depletion.**
Lee Ann Baxter and Hector F. DeLuca

3162 **Synthesis and release of procollagenase by cultured fibroblasts.**
Henning Birkedal-Hansen, Charles M. Cobb, Robert E. Taylor, and Harold M. Fullmer

3169 **Reconstitution of an active calcium pump in sarcoplasmic reticulum.**
Doris I. Repke, Joan C. Spivak, and Arnold M. Katz

3176 **Purification and properties of a virion protein kinase.**
Harvey Silberstein and J. Thomas August

3185 **Characterization of a virion protein kinase as a virus-specified enzyme.**
Harvey Silberstein and J. Thomas August

3191 **Preliminary x-ray investigation of an orthorhombic crystal form of human plasma albumin.**
S. Narasinga Rao, Sankar P. Basu, Charles G. Sanny, Robert V. Manley, and Jean A. Hartsuck

COMMUNICATIONS

3194 **On the 4′-phosphopantetheine content of chicken and rat liver fatty acid synthetases.**
Michael J. Arslanian, James K. Stoops, Yang H. Oh, and Salih J. Wakil

ADDITIONS AND CORRECTIONS

3197 **Studies on the chlorinating activity of myeloperoxidase. Vol. 251 (1976) 1371–1374.**
John E. Harrison and Julius Schultz

June 10, 1976

3199 **Rat intestinal brush border membrane peptidases. I. Solubilization, purification, and physicochemical properties of two different forms of the enzyme.**
Young S. Kim and Emmet J. Brophy

3206 **Rat intestinal brush border membrane peptidases. II. Enzymatic properties, immunochemistry, and interactions with lectins of two different forms of the enzyme.**
Young S. Kim, Emmet J. Brophy, and J. Alex Nicholson

3213 **Preparation and properties of partially purified pulmonary cytochrome P-450 from rabbits.**
Emel Arınç and Richard M. Philpot

3221 **Transport of riboflavin into yeast cells.**
Meir Perl, Edna B. Kearney, and Thomas P. Singer

3229 **Demonstration of pyroglutamylpeptidase and amidase activities toward thyrotropin-releasing hormone in hamster hypothalamus extracts.**
Chandan Prasad and Alan Peterkofsky

3235 **Substitution of lanthanide ions for calcium ions in the activation of bovine prothrombin by activated factor X. High affinity metal-binding sites of prothrombin and the derivatives of prothrombin activation.**
Barbara C. Furie, Kenneth G. Mann, and Bruce Furie

3242 **Phosphatidylserine synthetase mutants of *Escherichia coli*. Genetic mapping and membrane phospholipid composition.**
Christian R. H. Raetz

3250 **Partial amino acid sequences around the essential carboxylate in the active sites of the intestinal sucrase-isomaltase complex.**
Andrea Quaroni and Giorgio Semenza

3254 **Tryptophanyl transfer ribonucleic acid synthetase of *Escherichia coli*. Character of required thiol group and structure of thiol peptides.**
Gary V. Kuehl, Ming-liang Lee, and Karl H. Muench

3261 **Human tryptophanyl transfer ribonucleic acid synthetase. Composition, function of thiol groups, and structure of thiol peptides.**
Myatt S. Lipscomb, Ming-liang Lee, and Karl H. Muench

3269 **Soluble enzyme system for vitamin K-dependent carboxylation.**
Donald O. Mack, Eric T. Suen, Jean Marie Girardot, Julie A. Miller, Robert Delaney, and B. Connor Johnson

3277 **Restoration of a regulatory response to low density lipoprotein in acid lipase-deficient human fibroblasts.**
Michael S. Brown, Mary K. Sobhani, Gloria Y. Brunschede, and Joseph L. Goldstein

3287 **Stabilization of an RNA molecule by 3′-terminal poly(A)-induced inhibition of RNase activity.**
Philip A. Hieter, Stephen M. LeGendre, and Carl C. Levy

3294 **Glutamate synthase. Properties of the glutamine-dependent activity.**
Pekka Mäntsälä and Howard Zalkin

3300 **Properties of apoglutamate synthase and comparison with glutamate dehydrogenase.**
Pekka Mäntsälä and Howard Zalkin

3306 **Mechanism of the irreversible inhibition of aspartate aminotransferase by the bacterial toxin L-2-amino-4-methoxy-*trans*-3-butenoic acid.**
Robert R. Rando, Noël Relyea, and Lorna Cheng

3313 **Cell cycle-specific activity of type I and type II cyclic adenosine 3′:5′-monophosphate-dependent protein kinases in Chinese hamster ovary cells.**
Max Costa, Eugene W. Gerner, and Diane H. Russell

3320 **Conversion of a C-20-deoxy-C_{21} steroid, 5-pregnen-3β-ol, into testosterone by rat testicular microsomes.**
Richard B. Hochberg, Shoshana Ladany, and Seymour Lieberman

3326 **Properties of follitropin-receptor interaction. Characterization of the interaction of follitropin with receptors in purified membranes isolated from mature rat testes tubules.**
Hussein Abou-Issa and Leo E. Reichert, Jr.

3338 **Interaction of bacterial initiation factor 2 with initiator tRNA.**
R. Maya Sundari, Evan A. Stringer, LaDonne H. Schulman, and Umadas Maitra

3346 **Chondroitin sulfate glycosyltransferases in cultured chondrocytes. Turnover, oscillatory change during growth, and suppression by 5-bromodeoxyuridine.**
Nancy B. Schwartz

3352 **Identification of separate acyl-CoA:glycine and acyl-CoA:L-glutamine *N*-acyltransferase activities in mitochondrial fractions from liver of rhesus monkey and man.**
Leslie T. Webster, Jr., Usman A. Siddiqui, Samuel V. Lucas, John M. Strong, and John J. Mieyal

3359 **Mutations affecting the quaternary structure of the *lac* repressor.**
Albert Schmitz, Ursula Schmeissner, Jeffrey H. Miller, and Ponzy Lu

3367 **The activating system of chitin synthetase from *Saccharomyces cerevisiae*. Purification and properties of the activating factor.**
Rodney E. Ulane and Enrico Cabib

3375 **Dissociation and reassociation of the phosphorylated and nonphosphorylated forms of adenosine 3′:5′-monophosphate-dependent protein kinase from bovine cardiac muscle.**
Rafael Rangel-Aldao and Ora Mendelsohn Rosen

3381 **Prostaglandin biosynthesis and catabolism in the developing fetal sheep brain.**
Cecil Robert Pace-Asciak and G. Rangaraj

3386 **Limited proteolytic digestion of *lac* repressor by trypsin. Chemical nature of the resulting trypsin-resistant core.**
James G. Files and Klaus Weber

3392 **Peptidyl transfer RNA dissociates during protein synthesis from ribosomes of *Escherichia coli*.**
John R. Menninger

3399 **Neuroblastoma adenylate cyclase. Role of 2-chloroadenosine, prostaglandin E_1, and guanine nucleotides in regulation of activity.**
Arthur J. Blume and Carolyn J. Foster

3405 **Transport and utilization of methyltetrahydrofolates by *Lactobacillus casei*.**
Barry Shane and E. L. R. Stokstad

3411 **Origins of circular dichroism bands in Bowman-Birk soybean trypsin inhibitor.**
Ernest Kay

3417 **Comparison of initial velocity and binding data for allosteric adenosine monophosphate nucleosidase.**
Vern L. Schramm

3425 **Importance of full size complementary DNA in nucleic acid hybridization.**
Gary B. Weiss, Golder N. Wilson, Alan W. Steggles, and W. French Anderson

3432 **Modification of *Escherichia coli* DNA ligase by cleavage with trypsin.**
Sharon M. Panasenko, Paul Modrich, and I. R. Lehman

3436 **Characterization of enzyme-like activity of human hemoglobin. Properties of the hemoglobin-P-450 reductase-coupled aniline hydroxylase system.**
John J. Mieyal, Rollie S. Ackerman, Jeffrey L. Blumer, and Linda S. Freeman

3442 **Acceleration of the autooxidation of human oxyhemoglobin by aniline and its relation to hemoglobin-catalyzed aniline hydroxylation.**
John J. Mieyal and Jeffrey L. Blumer

3447 **Regulation of glutaminase B in *Escherichia coli*. I. Purification, properties, and cold lability.**
Stanley Prusiner, Joe N. Davis, and E. R. Stadtman

3457 **Regulation of glutaminase B in *Escherichia coli*. II. Modulation of activity by carboxylate and borate ions.**
Stanley Prusiner and E. R. Stadtman

3463 **Regulation of glutaminase B in *Escherichia coli*. III. Control by nucleotides and divalent cations.**
Stanley Prusiner and E. R. Stadtman

3470 **Evidence for the involvement of an outer membrane protein in DNA initiation.**
Lorraine J. Gudas, Richard James, and Arthur B. Pardee

3480 **Nucleotide sequence of a 5 S ribosomal RNA precursor from *Bacillus subtilis*.**
Mitchell L. Sogin, Norman R. Pace, M. Rosenberg, and S. M. Weissman

3489 **Effects of the divalent cation ionophore A23187 on potassium permeability of rat erythrocytes.**
Peter W. Reed

3495 **Side chain hydroxylations in biosynthesis of cholic acid. 25- and 26-hydroxylation of 5β-cholestane-3α,7α,12α-triol by reconstituted systems from rat liver microsomes.**
Ingemar Björkhem, Henry Danielsson, and Kjell Wikvall

3500 **Glycoprotein-enriched vesicles from sheep erythrocyte ghosts obtained by spontaneous vesiculation.**
Hans U. Lutz, Roger Barber, and Robert F. McGuire

3511 **Isolation and characterization of proteoglycans from chick limb bud chondrocytes grown *in vitro*.**
Vincent C. Hascall, Theodore R. Oegema, Martin Brown, and Arnold I. Caplan

ADDITIONS AND CORRECTIONS

3520 **Studies on regulatory factors of ornithine decarboxylase activity during development of mouse mammary epithelium *in vitro*. Vol. 251 (1976) 1738–1744.**
Takami Oka and John W. Perry

3520 **Antiserum monospecific to hepatic ornithine decarboxylase. Vol. 251 (1976) 1781–1784.**
Theoharis C. Theoharides and Zoe N. Canellakis

June 25, 1976

3521 **Protein degradation in human fibroblasts (WI-38). Effects of aging, viral transformation, and amino acid analogs.**
Matthews O. Bradley, Leonard Hayflick, and Robert T. Schimke

3530 **Time of occurrence of disulfide linking between procollagen chains.**
Lewis N. Lukens

3539 **Dietary regulation of 6-phosphogluconate dehydrogenase synthesis.**
Dana Procsal, Larry Winberry, and Darold Holten

3545 **Yeast α-isopropylmalate isomerase. Factors affecting stability and enzyme activity.**
Ramunas Bigelis and H. Edwin Umbarger

3553 **Differential reactivity of the two active site cysteine residues generated on reduction of pig heart lipoamide dehydrogenase.**
Colin Thorpe and Charles H. Williams, Jr.

3558 **Thyroxine-protein interactions. Interaction of thyroxine and triiodothyronine with human thyroxine-binding globulin.**
Ladislav Korcek and Milton Tabachnick

3563 **The kinetic mechanism of rat kidney γ-glutamylcysteine synthetase.**
Berwin Yip and Frederick B. Rudolph

3569 **Folate metabolism in mammalian cells in culture. I. Partial characterization of the folate derivatives present in L1210 mouse leukemia cells.**
Richard G. Moran, William C. Werkheiser, and Sigmund F. Zakrzewski

3576 **Differential response to adrenocorticotropic hormone analogs of bovine adrenal plasma membranes and cells.**
Frances M. Finn, Phillip A. Johns, Norio Nishi, and Klaus Hofmann

3586 **Influence of hormones and medium composition on the degradation of phosphoenolpyruvate carboxykinase (GTP) and total protein in Reuber H35 cells.**
J. Martyn Gunn, F. John Ballard, and Richard W. Hanson

3594 **Effects of sex hormones on the level of the messenger RNA for the rat hepatic protein α 2u globulin.**
David T. Kurtz, Albrecht E. Sippel, Richmond Ansah-Yiadom, and Philip Feigelson

3599 **NAD⁺-Malic enzyme. Regulatory properties of the enzyme from *Ascaris suum*.**
William J. Landsperger and Ben G. Harris

3603 **Purification and characterization of an endo-β-galactosidase produced by *Diplococcus pneumoniae*.**
Seiichi Takasaki and Akira Kobata

3610 **Chemical characterization and distribution of ABO blood group active glycoprotein in human erythrocyte membrane.**
Seiichi Takasaki and Akira Kobata

3616 **Binding of substrates to *Escherichia coli* ribonucleotide reductase.**
Ulrika von Döbeln and Peter Reichard

3623 **Biosynthesis of riboflavin. Structure of the purine precursor and origin of the ribityl side chain.**
B. Mailänder and A. Bacher

3629 **On a possible mechanism of energy conservation in sarcoplasmic reticulum membrane.**
Maria da Gloria C. Carvalho, Diogo G. de Souza, and Leopoldo de Meis

3637 **Asparagusate dehydrogenases and lipoyl dehydrogenase from asparagus mitochondria. Physical, chemical, and enzymatic properties.**
Hiroshi Yanagawa and Fujio Egami

3645 **Metal ion activation of galactosyltransferase.**
Janet T. Powell and Keith Brew

3653 **A comparison of the interactions of galactosyltransferase with a glycoprotein substrate (ovalbumin) and with α-lactalbumin.**
Janet T. Powell and Keith Brew

3664 **Studies on heart phosphofructokinase. Use of fructose 6-sulfate as an alternative substrate to study the mechanism of action and active site specificity.**
Todd M. Martensen and Tag E. Mansour

3671 **Reversible inactivation of phenylalanine hydroxylase by catecholamines in cultured hepatoma cells.**
Michael R. Miller and Ross Shiman

3677 **Mechanism of inactivation of phenylalanine hydroxylase by *p*-chlorophenylalanine in hepatoma cells in culture. Two possible models.**
Michael R. Miller, Don McClure, and Ross Shiman

3685 **Phosphorylation of distinct regions of f1 histone. Relationship to the cell cycle.**
Philip Hohmann, Robert A. Tobey, and Lawrence R. Gurley

3693 **Isolation and characterization of the affinity chromatography forms of human Glu- and Lys-plasminogens and plasmins.**
Louis Summaria, Frank Spitz, Leonida Arzadon, Irena G. Boreisha, and Kenneth C. Robbins

3700 **Crystallization of human placental estradiol 17β-dehydrogenase. A new method for crystallizing labile enzymes.**
Chang-chen Chin, Joseph B. Dence, and James C. Warren

3706 **Cytochrome P-450 of bovine adrenal mitochondria. Ligand binding to two forms resolved by EPR spectroscopy.**
Colin R. Jefcoate, William H. Orme-Johnson, and Helmut Beinert

3716 **Selective inhibition of the DNase activity of the *recBC* enzyme by the DNA binding protein from *Escherichia coli*.**
Vivian MacKay and Stuart Linn

3720 **Regulation of receptor concentration by homologous hormone. Effect of human growth hormone on its receptor in IM-9 lymphocytes.**
Maxine A. Lesniak and Jesse Roth

3730 **Enzymic conversion of protoporphyrinogen IX to protoporphyrin IX in mammalian mitochondria.**
Rozanne Poulson

3734 **The mechanism of action of ethanolamine ammonia-lyase, an adenosylcobalamin-dependent enzyme. The source of the third methyl hydrogen in the 5′-deoxyadenosine generated from the cofactor during catalysis.**
Kazuyoshi Sato, James C. Orr, Bernard M. Babior, and Robert H. Abeles

3738 **Effect of estrogen on gene expression in the chick oviduct. Effect of estrogen on the sequence and population complexity of chick oviduct poly(A)-containing RNA.**
John J. Monahan, Stephen E. Harris, and Bert W. O'Malley

3749 **Conformational and thermodynamic properties of apo A-1 of human plasma high density lipoproteins.**
Alan R. Tall, G. Graham Shipley, and Donald M. Small

3756 **Hepatic pyruvate kinase. Regulation by glucagon, cyclic adenosine 3′:5′-monophosphate, and insulin in the perfused rat liver.**
James B. Blair, Michele A. Cimbala, John L. Foster, and Richard A. Morgan

3763 **Stimulation of proteoglycan synthesis in chick embryo sternum by serum and L-3,5,3′-triiodothyronine.**
Tapan K. Audhya, Barbara J. Segen, and Kenneth D. Gibson

3768 **Effect of hypophysectomy on the synthesis of rat liver albumin.**
George H. Keller and John M. Taylor

3774 ***Lac* repressor. Fluorescence of the two tryptophans.**
Hans Sommer, Ponzy Lu, and Jeffrey H. Miller

3780 **Ketopantoate hydroxymethyltransferase. I. Purification and role in pantothenate biosynthesis.**
Joel H. Teller, Sue Glenn Powers, and Esmond E. Snell

3786 **Ketopantoate hydroxymethyltransferase. II. Physical, catalytic, and regulatory properties.**
Sue Glenn Powers and Esmond E. Snell

3794 **Purification and subunit structure of deoxyribonucleic acid-dependent ribonucleic acid polymerase III from the posterior silk gland of *Bombyx mori*.**
Virgil E. F. Sklar, Judith A. Jaehning, L. Patrick Gage, and Robert G. Roeder

3801 **Structure of *Peptococcus aerogenes* ferredoxin. Refinement at 2 Å resolution.**
Elinor T. Adman, Larry C. Sieker, and Lyle H. Jensen

3807 **RNase III cleavage of single-stranded RNA. Effect of ionic strength on the fidelity of cleavage.**
John J. Dunn

3815 **3-Hydroxy-3-methylglutaryl coenzyme A reductase from rat liver. Its purification, properties, and immunochemical studies.**
Renu A. Heller and M. Adeline Shrewsbury

3823 **Enzymatic probes of lipoprotein structure. Hydrolysis of human serum low density lipoprotein-2 by phospholipase A_2.**
Lawrence P. Aggerbeck, Ferenc J. Kézdy, and Angelo M. Scanu

COMMUNICATIONS

3831 **Dissociation of β-hydroxy-β-methylglutaryl-CoA reductase activity from the overall rate of cholesterol synthesis in the liver following the intravenous administration of lipid.**
Flavio O. Nervi, Massimo Carrella, and John M. Dietschy

3834 **Direct transfer of the phosphoryl moiety of mannitol 1-phosphate to [^{14}C]mannitol catalyzed by the Enzyme II complexes of the phosphoenolpyruvate:mannitol phosphotransferase systems in *Spirochaeta aurantia* and *Salmonella typhimurium*.**
Milton H. Saier, Jr., and Michael J. Newman

ADDITIONS AND CORRECTIONS

3838 **Interaction of swine lipoproteins with the low density lipoprotein receptor in human fibroblasts. Vol. 251 (1976) 2395 to 2398.**
Thomas P. Bersot, Robert W. Mahley, Michael S. Brown, and Joseph L. Goldstein

3839 **Conditional spore cortex-less mutants of *Bacillus sphaericus* 9602. Vol. 251 (1976) 1493–1499.**
Yasuo Imae and Jack L. Strominger

iii **Cumulative author index. Numbers 1 through 12**

July 10, 1976

3841 **Re-evaluation of the kinetics of lactate dehydrogenase-catalyzed chain oxidation of nicotinamide adenine dinucleotide by superoxide radicals in the presence of ethylenediaminetetraacetate.**
Benon H. J. Bielski and Phillip C. Chan

3845 **Purification and characterization of the α-D-mannosidase of rat liver cytosol.**
Vernon A. Shoup and Oscar Touster

3853 **Rate-limiting steps for the esterase and dehydrogenase reaction catalyzed by horse liver aldehyde dehydrogenase.**
Henry Weiner, James H. J. Hu, and Charles G. Sanny

3856 **Comparison of the physical properties of chemically prepared and tissue-endogenous equine apoferritins.**
Bonnie Strayer Leach, Michael E. May, and Wayne W. Fish

3862 **Effects of two ionizing groups on the active site of human carbonic anhydrase B.**
Philip L. Whitney and Howard Brandt

3868 **The ovalbumin gene. Partial purification of the coding strand.**
Savio L. C. Woo, Roy G. Smith, Anthony R. Means, and Bert W. O'Malley

3875 **Purification and properties of the $\alpha_2\beta_2$ complex of tryptophan synthetase of *Proteus mirabilis*.**
Michel Riverin and Gabriel R. Drapeau

3881 **Action of ionophore A23187 at the cellular level. Separation of effects at the plasma and mitochondrial membranes.**
Donner F. Babcock, Neal L. First, and Henry A. Lardy

3887 **The *in vivo* effect of colchicine on the addition of galactose and sialic acid to rat hepatic serum glycoproteins.**
Debendranath Banerjee, Carolyn Pierno Manning, and Colvin M. Redman

3893 **Pre-proparathyroid hormone. Evidence for an early biosynthetic precursor of proparathyroid hormone.**
Joel F. Habener, John T. Potts, Jr., and Alexander Rich

3900 **Ecto-5′-nucleotidase of intact cultured C6 rat glioma cells.**
Vladisav Stefanovic, Paul Mandel, and Abraham Rosenberg

3906 **Mechanism of the urokinase-catalyzed activation of human plasminogen.**
Bernard N. Violand and Francis J. Castellino

3913 **Interaction of streptokinase with plasminogen. Isolation and characterization of a streptokinase degradation product.**
Gerald E. Siefring, Jr. and Francis J. Castellino

3921 **Structure of high density lipoprotein. The immunologic reactivities of the COOH- and NH_2-terminal regions of apolipoprotein A-I.**
Gustav Schonfeld, Ralph A. Bradshaw, and Jung-shou Chen

3927 **Isolation and characterization of the unique prosthetic group of a green hemoprotein from human erythrocytes.**
Donald E. Hultquist, Richard T. Dean, and Dan W. Reed

3933 **Isolation of chick renal mitochondrial ferredoxin active in the 25-hydroxyvitamin D_3-1α-hydroxylase system.**
Jan I. Pedersen, Jacob G. Ghazarian, Nanette R. Orme-Johnson, and Hector F. DeLuca

3942 **Biosynthesis of chondroitin sulfate. Independent addition of glucuronic acid and *N*-acetylgalactosamine to oligosaccharides.**
Jeremiah E. Silbert and Albert C. Reppucci, Jr.

3948 **Compartmental behavior of ornithine in *Neurospora crassa*.**
Joan N. Karlin, Barry J. Bowman, and Rowland H. Davis

3956 **Measurement of the oxidation-reduction potentials for two-electron and four-electron reduction of lipoamide dehydrogenase from pig heart.**
Rowena G. Matthews and Charles H. Williams, Jr.

3965 **Interactions of oxytocin and vasopressin with bovine neurophysins I and II. Effects of hormone binding on the protein quaternary structure: a simple model.**
Pierre Nicolas, Maryse Camier, Philippe Dessen, and Paul Cohen

3972 **Immobilized ATP and actin columns as a tool for the characterization and separation of different myosins and active myosin fragments.**
Avraham Oplatka, Andras Muhlrad, and Raphael Lamed

3977 **Kinetics of binding of the toxic lectins abrin and ricin to surface receptors of human cells.**
Kirsten Sandvig, Sjur Olsnes, and Alexander Pihl

3985 **Rates of different steps involved in the inhibition of protein synthesis by the toxic lectins abrin and ricin.**
Sjur Olsnes, Kirsten Sandvig, Karin Refsnes, and Alexander Pihl

3993 **Phosphorylation of histone catalyzed by a bovine brain protein kinase. Protein kinase assay employing polyethyleneimine-cellulose thin layer sheets.**
George W. Moll, Jr. and Emil Thomas Kaiser

4001 **Partial specific volume, expansibility, compressibility, and heat capacity of aqueous lysozyme solutions.**
Frank J. Millero, Gary K. Ward, and Peter Chetirkin

4005 **The molar ratio of the two major polypeptide components of human high density lipoprotein.**
Samuel J. Friedberg and Jacqueline A. Reynolds

4010 **Temperature dependence of cytochrome P-450 reduction. A model for NADPH-cytochrome P-450 reductase:cytochrome P-450 interaction.**
Julian A. Peterson, Richard E. Ebel, David H. O'Keeffe, Takashi Matsubara, and Ronald W. Estabrook

4017 **Opposing effects of mitogenic and nonmitogenic lectins on lymphocyte activation. Evidence that wheat germ agglutinin produces a negative signal.**
Warner C. Greene, Christine M. Parker, and Charles W. Parker

4026 **Purification of human erythrocyte adenosine deaminase by affinity column chromatography.**
William P. Schrader, Andrew R. Stacy, and Bernard Pollara

4033 **The structure of *Paracoccus denitrificans* cytochrome c_{550}.**
Russell Timkovich and Richard E. Dickerson

4047 **Sex-specific occurrence of androgen receptors in rat brain.**
Jan-Åke Gustafsson, Åke Pousette, and Elisabeth Svensson

4055 **Deoxycytidine kinase from calf thymus. Substrate and inhibitor specificity.**
Thomas A. Krenitsky, Joel V. Tuttle, George W. Koszalka, Isabel S. Chen, Lowrie M. Beacham III, Janet L. Rideout, and Gertrude B. Elion

4062 **Studies on the subunit composition of the renal glomerular basement membrane.**
Tokutaro Sato and Robert G. Spiro

4071 **Sea urchin sperm guanylate cyclase. Purification and loss of cooperativity.**
David L. Garbers

4078 **Biochemical characterization of mutant forms of DNA polymerase I from *Escherichia coli*. I. The *Pol*A12 mutation.**
Dennis Uyemura and I. R. Lehman

4085 **Biochemical characterization of mutant forms of DNA polymerase I from *Escherichia coli*. II. The *Pol*Aex1 mutation.**
Dennis Uyemura, Duane C. Eichler, and I. R. Lehman

4090 **On the processive mechanism of *Escherichia coli* DNA polymerase I. Delayed initiation of polymerization.**
Robert A. Bambara, Dennis Uyemura, and I. R. Lehman

4095 **Purification of plasma membrane penicillinase from *Bacillus licheniformis* 749/C and comparison with exoenzyme.**
Shinpei Yamamoto and J. Oliver Lampen

4102 **The hydrophobic membrane penicillinase of *Bacillus licheniformis* 749/C. Characterization of the hydrophilic enzyme and phospholipopeptide produced by trypsin cleavage.**
Shinpei Yamamoto and J. Oliver Lampen

4111 **DNA synthesis and turnover in the bullfrog tadpole during metamorphosis.**
Gary VanDenbos and Earl Frieden

4115 **Biosynthesis of adrenocorticotropic hormone in mouse pituitary tumor cells.**
Richard E. Mains and Betty A. Eipper

4121 **High molecular weight forms of adrenocorticotropic hormone are glycoproteins.**
Betty A. Eipper, Richard E. Mains, and Doris Guenzi

4127 **A relation between [NAD^+]/[NADH] potentials and glucose utilization in rat brain slices.**
Gary Gibson and John P. Blass

4131 **Histones of *Neurospora crassa*.**
Christopher G. Goff

4139 **The plasma membrane of human placenta. Isolation of microvillus membrane and characterization of protein and glycoprotein subunits.**
Robert W. Carlson, H. Garrett Wada, and Howard H. Sussman

4147 **Localization of ionophore activity in a 20,000-dalton fragment of the adenosine triphosphatase of sarcoplasmic reticulum.**
Adil E. Shamoo, Thomas E. Ryan, Peter S. Stewart, and David H. MacLennan

4155 **A cysteine-containing H2B-like histone found in mature mammalian testis.**
Ann Shires, Mary P. Carpenter, and Roger Chalkley

COMMUNICATIONS

4159 **Formyltetrahydrofolate synthetase-catalyzed formation of ATP from carbamyl phosphate and ADP. Evidence for a formyl phosphate intermediate in the enzyme's catalytic mechanism.**
Daniel H. Buttlaire, Richard H. Himes, and George H. Reed

4162 **Calcium-dependent stimulation of erythrocyte membrane phospholipid fatty acid incorporation by the ionophore A23187.**
Craig A. Dise, William C. Lake, David B. P. Goodman, and Howard Rasmussen

July 25, 1976

4165 **Probes of initial phosphorylation events in ATP synthesis by chloroplasts.**
Daniel J. Smith, Barry O. Stokes, and Paul D. Boyer

4172 **Fluorescent excitation transfer immunoassay. A general method for determination of antigens.**
Edwin F. Ullman, Moshe Schwarzberg, and Kenneth E. Rubenstein

4179 **Human erythrocyte pyrimidine nucleoside monophosphate kinase. Partial purification and properties of two allelic gene products.**
Yao-Sheng Teng, Shi-Han Chen, and C. Ronald Scott

4184 **Purification and characterization of a new family of polypeptide neurotoxins from the heteronemertine *Cerebratulus lacteus* (Leidy).**
William R. Kem

4193 **Cyclic 3′:5′-nucleotide phosphodiesterase. Ca^{2+} confers more helical conformation to the protein activator.**
Yung Pin Liu and Wai Yiu Cheung

4199 **Purification of the pneumococcal *N*-acetylmuramyl-DL-alanine amidase to biochemical homogeneity.**
Joachim V. Höltje and Alexander Tomasz

4208 **Identification of *sn*-glycero-1-phosphate and phosphoethanolamine residues linked to the membrane-derived oligosaccharides of *Escherichia coli*.**
Eugene P. Kennedy, Marilynn K. Rumley, Howard Schulman, and Lambert M. G. van Golde

4214 **Comparative chemical analyses of the alloantigenic fragments of HL-A antigens.**
Ole Henriksen, Ettore Appella, David F. Smith, Nobuyuki Tanigaki, and David Pressman

4220 **Oxidation of the carbanion intermediate of transaldolase by hexacyanoferrate(III).**
Philipp Christen and Alice Gasser

4224 **Role of phospholipids in the calcium-dependent ATPase of the sarcoplasmic reticulum. Enzymatic and ESR studies with phospholipid-replaced membranes.**
Cecilia Hidalgo, Noriaki Ikemoto, and John Gergely

4233 **Activities of thyroid hormones and related compounds in an *in vitro* thymocyte assay.**
Ira D. Goldfine, George J. Smith, Cyrena G. Simons, Sidney H. Ingbar, and Eugene C. Jorgensen

4239 **Regulation of adenylate cyclase from cultured human cell lines by adenosine.**
Richard B. Clark and M. Natalie Seney

4247 **Thyroid-stimulating hormone binding to beef thyroid membranes. Role of *N*-acetylneuraminic acid.**
Wayne V. Moore and Lawrence Feldman

4254 **Hemoglobins of the tadpole of the bullfrog, *Rana catesbeiana*. Temperature dependence of oxygen binding and pH dependence of subunit dissociation.**
Tsutomu Araki, Kenneth W. K. Watt, and Austen Riggs

4259 **Characterization of ribosome-protected fragments from reovirus messenger RNA.**
Marilyn Kozak and Aaron J. Shatkin

4267 **Dissociation of CO from carboxyhemoglobin.**
Vijay S. Sharma, Mary R. Schmidt, and Helen M. Ranney

4273 **Purification and binding properties of human Platelet Factor Four.**
Robert I. Handin and Howard J. Cohen

4283 **Isolation of stimulatory modulator of guanosine 3′:5′-monophosphate-dependent protein kinase from mammalian heart devoid of inhibitory modulator of adenosine 3′:5′-monophosphate-dependent protein kinase.**
Wu-Nan Kuo and J. F. Kuo

4287 **Cystine metabolism in human fibroblasts. Comparison of normal, cystinotic, and γ-glutamyl cysteine synthetase-deficient cells.**
Robert G. Oshima, William J. Rhead, Jess G. Thoene, and Jerry A. Schneider

4294 **Reiteration frequency of δ-crystallin DNA in lens and non-lens tissues of chick embryos. δ-Crystallin gene is not amplified during lens cell differentiation.**
Peggy Zelenka and Joram Piatigorsky

4299 **Adrenodoxin reductase. Properties of the complexes of reduced enzyme with $NADP^+$ and NADPH.**
J. David Lambeth and Henry Kamin

4307 **Function and structure of RNA polymerase from vesicular stomatitis virus.**
Shigetaka Naito and Akira Ishihama

4315 **Size-dependent allosteric effects of monovalent cations on rabbit liver fructose-1,6-bisphosphatase.**
Kunio Nakashima and Syozo Tuboi

4322 **Mechanism of an active transport of calcium. Ethoxyformylation of sarcoplasmic reticulum vesicles.**
Jean-Pierre Tenu, Charis Ghelis, Didier Saint Leger, Josianne Carrette, and Jean Chevallier

4330 **A transition state analog of lysozyme catalysis prepared from the bacterial cell wall tetrasaccharide.**
Melvin Schindler and Nathan Sharon

4336 **The study of 1-electron equivalent oxidation-reduction reactions by fast pulse generation of reagents. Cytochrome c/ferri-ferrocyanide system.**
Yigal Ilan, Avigdor Shafferman, and Gabriel Stein

4346 **Association of hemoglobin Saint Etienne ($\alpha_2\beta_2^{92FG\ His \rightarrow Gln}$) with hemoglobins A and F. Synthesis and subunit exchange *in vitro*.**
Jean François Godeau, Yves G. Beuzard, Janine Cacheleux, Charles Pierre Brizard, André Gibaud, and Jean Rosa

4355 **Synthesis of functional aldolase tetramers in a heterologous cell-free system.**
Herbert G. Lebherz and Darrell Doyle

4359 **Regulation of glycogen synthetase. Effects of trypsin on the structure, activity, and phosphorylation of the skeletal muscle enzyme.**
Thomas R. Soderling

4365 **Sodium- and potassium-activated adenosine triphosphatase of the nasal salt gland of the duck (*Anas platyrhynchos*). Purification, characterization, and NH_2-terminal amino acid sequence of the phosphorylating polypeptide.**
Barry E. Hopkins, Henry Wagner, Jr., and Thomas W. Smith

4372 **Cytidine 5′-triphosphate synthetase of calf liver. Size, polymerization, and reaction stoichiometry.**
Richard P. McPartland and Herbert Weinfeld

4379 **Kinetic resolution of ligand binding to the α and β chains within human hemoglobin.**
Paul Reisberg, John S. Olson, and Graham Palmer

4384 **β-Mannosidase from the mushroom *Polyporus sulfureus*.**
Chin Chin Wan, James E. Muldrey, Su-Chen Li, and Yu-Teh Li

4389 **Adenosine triphosphate sulfurylase from *Penicillium chrysogenum*. Steady state kinetics of the forward and reverse reactions.**
John R. Farley, David F. Cryns, Y. H. Joy Yang, and Irwin H. Segel

4398 **The carbamate reaction of glycylglycine, plasma, and tissue extracts evaluated by a pH stopped flow apparatus.**
Gerolf Gros, Robert E. Forster, and Lydia Lin

4408 **Glyoxylate aminotransferase in peroxisomes from rat liver and kidney.**
Berlin Hsieh and N. E. Tolbert

4416 **Subunit composition of δ-crystallin from embryonic chick lens. Analysis of methionine-containing tryptic peptides and cyanogen bromide peptides.**
Joram Piatigorsky

4421 **Effect of cobalt on synthesis of heme and cytochrome P-450 in the liver. Studies of adult rat hepatocytes in primary monolayer culture and *in vivo*.**
Philip S. Guzelian and D. Montgomery Bissell

4428 **Depletion of ^{18}O from $C^{18}O_2$ in erythrocyte suspensions. The permeability of the erythrocyte membrane to CO_2.**
David N. Silverman, Chingkuang Tu, and George C. Wynns

4436 **Stimulation of ornithine decarboxylase synthesis and its control by polyamines in regenerating rat liver and cultured rat hepatoma cells.**
Zoe N. Canellakis and Theoharis C. Theoharides

4442 **Hydrophile-lipophile balance and critical micelle concentration as key factors influencing surfactant disruption of mitochondrial membranes.**
Robert W. Egan, Marjorie A. Jones, and Albert L. Lehninger

4448 **Sphingolipid base metabolism. Stereospecific uptake of proton in the enzymatic conversion of sphinganine 1-phosphate to ethanolamine 1-phosphate.**
Tadashi Shimojo, Toyoaki Akino, Yoshiro Miura, and George J. Schroepfer, Jr.

4458 **Relationship of the pool of intracellular valine to protein synthesis and degradation in cultured cells.**
Yaacov Hod and Avram Hershko

4468 **Enzymological studies on hereditary avian muscular dystrophy.**
Roger Patnode, Edward Bartle, Edward J. Hill, Virgil LeQuire, and Jane Harting Park

COMMUNICATION

4476 **Guanosine 3′:5′-monophosphate-dependent protein kinase from silkworm, properties of a catalytic fragment obtained by limited proteolysis.**
Masanori Inoue, Akira Kishimoto, Yoshimi Takai, and Yasutomi Nishizuka

ADDITIONS AND CORRECTIONS

4479 **Induced polypeptide synthesis during the development of bacterial bioluminescence. Vol. 251 (1976) 2541–2549.**
George A. Michaliszyn and Edward A. Meighen

August 10, 1976

4481 **The nucleotide sequence in the promoter region of the gene for an *Escherichia coli* tyrosine transfer ribonucleic acid.**
Takao Sekiya, Michael J. Gait, Kjeld Noris, Belagaje Ramamoorthy, and H. Gobind Khorana

4490 **Uptake and metabolism of gangliosides in transformed mouse fibroblasts. Relationship of ganglioside structure to choleragen response.**
Peter H. Fishman, Joel Moss, and Martha Vaughan

4495 **Comparison of calcium-binding proteins. Bovine heart and brain protein activators of cyclic nucleotide phosphodiesterase and rabbit skeletal muscle troponin C.**
Frits C. Stevens, Michael Walsh, Honor C. Ho, Tian Seng Teo, and Jerry H. Wang

4501 **Structural similarities between the Ca^{2+}-dependent regulatory proteins of 3′:5′-cyclic nucleotide phosphodiesterase and actomyosin ATPase.**
D. Martin Watterson, Willard G. Harrelson, Jr., Paul M. Keller, Farida Sharief, and Thomas C. Vanaman

4514 **Platelet α_2-macroglobulin and α_1-antitrypsin.**
Ralph L. Nachman and Peter C. Harpel

4521 **A study on the autoactivation of rabbit muscle phosphorylase kinase.**
Jerry H. Wang, James T. Stull, Tung-Shiuh Huang, and Edwin G. Krebs

4528 **Purification and properties of cathepsin D from porcine spleen.**
Madeleine Cunningham and Jordan Tang

4537 **Triacylglycerol synthesis in isolated fat cells. Studies on**

the microsomal diacylglycerol acyltransferase activity using ethanol-dispersed diacylglycerols.
Rosalind Coleman and Robert M. Bell

4544 **Regulation of the transmembrane potential of isolated chromaffin granules by ATP, ATP analogs, and external pH.**
Harvey B. Pollard, Oren Zinder, Philip G. Hoffman, and Olga Nikodejevic

4551 **Interaction of cyclic adenosine 3′:5′-monophosphate with protein kinase. Equilibrium binding models.**
John R. Ogez and Irwin H. Segel

4557 **Sphingolipid base metabolism. Partial purification and properties of sphinganine kinase of brain.**
Daniel D. Louie, Alemka Kisic, and George J. Schroepfer, Jr.

4565 **Detection of an essential sulfhydryl group in phosphoglycerate mutase with an affinity-labeling reagent.**
Fred C. Hartman and I. Lucile Norton

4570 **A heterologous system for detecting eukaryotic enzymes which synthesize pseudouridine in transfer ribonucleic acids.**
Guy T. Mullenbach, Harold O. Kammen, and Edward E. Penhoet

4579 **Human correxonuclease. Purification and properties of a DNA repair exonuclease from placenta.**
Jay Doniger and Lawrence Grossman

4588 **A respiration-deficient Chinese hamster cell line with a defect in NADH-coenzyme Q reductase.**
Laura DeFrancesco, Immo E. Scheffler, and Mina J. Bissell

4596 **Studies on the subcellular localization and properties of bis(monoacylglyceryl)phosphate biosynthesis in rat liver.**
Bernardus J. H. M. Poorthuis and Karl Y. Hostetler

4603 **Antibody as an immunological probe for studying the refolding of bovine serum albumin. I. The catalysis of reoxidation of reduced bovine serum albumin by glutathione and a disulfide interchange enzyme.**
Judy M. Teale and David C. Benjamin

4609 **Antibody as an immunological probe for studying the refolding of bovine serum albumin. II. Evidence for the independent refolding of the domains of the molecule.**
Judy M. Teale and David C. Benjamin

4616 **A fragment comprising the last third of bovine serum albumin which accounts for almost all the antigenic reactivity of the native protein.**
Ahmed F. S. A. Habeeb and M. Zouhair Atassi

4622 **Formation of hybrid c[illegible]canavalin A molecules by subunit exchange.**
Alan R. Fraser, John L. Wang, and Gerald M. Edelman

4629 **Interaction of porcine vasoactive intestinal peptide with dispersed pancreatic acinar cells from the guinea pig. Binding of radioiodinated peptide.**
Jean P. Christophe, Thomas P. Conlon, and Jerry D. Gardner

4635 **Interaction of porcine vasoactive intestinal peptide with dispersed pancreatic acinar cells from the guinea pig. Structural requirements for effects of vasoactive intestinal peptide and secretin on cellular adenosine 3′:5′-monophosphate.**
Patrick Robberecht, Thomas P. Conlon, and Jerry D. Gardner

4640 **Action of cholecystokinin, cholinergic agents, and A-23187 on accumulation of guanosine 3′:5′-monophosphate in dispersed guinea pig pancreatic acinar cells.**
Jean P. Christophe, Erik K. Frandsen, Thomas P. Conlon, Gopal Krishna, and Jerry D. Gardner

4646 **Phenylalanine ammonia-lyase. Induction and purification from yeast and clearance in mammals.**
Richard R. Fritz, Daniel S. Hodgins, and Creed W. Abell

4651 **Properties of the guanylate cyclase-guanosine 3′:5′-monophosphate system of rat renal cortex. Activation of guanylate cyclase and calcium-independent modulation of tissue guanosine 3′:5′-monophosphate by sodium azide.**
Frederick R. DeRubertis and Patricia A. Craven

4659 **Separation, purification, and properties of multiple forms of cytochrome P-450 from the liver microsomes of phenobarbitol-treated mice.**
Mou-Tuan Huang, Susan B. West, and Anthony Y. H. Lu

4666 **The isolation of eukaryotic ribosomal proteins. The purification and characterization of the 40 S ribosomal subunit proteins S2, S3, S4, S5, S6, S7, S8, S9, S13, S23/S24, S27, and S28.**
Ekkehard Collatz, Ira G. Wool, Alan Lin, and Georg Stöffler

4673 **Characterization of mannose-labeled glycopeptides from human diploid cells and their growth-dependent alterations.**
Takashi Muramatsu, Norio Koide, Costante Ceccarini, and Paul H. Atkinson

4680 **Requirement of an essential thiol group and ferric iron for the activity of the progesterone-induced porcine uterine purple phosphatase.**
David C. Schlosnagle, Eugene G. Sander, Fuller W. Bazer, and R. Michael Roberts

4686 **Regulation of β-adrenergic receptors by guanyl-5′-yl imidodiphosphate and other purine nucleotides.**
Robert J. Lefkowitz, Debra Mullikin, and Marc G. Caron

4693 **Properties of the interaction between bovine thyrotropin and bovine thyroid plasma membranes.**
Syed M. Amir, Ira D. Goldfine, and Sidney H. Ingbar

4700 **Distribution of enzyme activities in subcellular fractions of bovine retina.**
William F. Zimmerman, Frans J. M. Daemen, and Sjoerd L. Bonting

4706 **Acyl carrier protein metabolism and regulation of fatty acid biosynthesis by *Lactobacillus plantarum*.**
Joseph Eugene Sabaitis, Jr., and Gary L. Powell

4713 **Effects of estrogen on gene expression in chick oviduct. The role of chromatin proteins in regulating transcription of the ovalbumin gene.**
Sophia Y. Tsai, Steve E. Harris, Ming-Jer Tsai, and Bert W. O'Malley

4722 **Carboxamidomethyl esters as reactive substrates for α-chymotrypsin. Orientational effects of hydrogen-bonding interactions.**
Saul G. Cohen, Barry Torem, Vishnu Vaidya, and Anne Ehret

4729 **Organization of membrane proteins in the intact myelin sheath. Pyridoxal phosphate and salicylaldehyde as probes of myelin structure.**
Elaine E. Golds and Peter E. Braun

4736 **Kinetic studies of sheep kidney γ-glutamyl transpeptidase.**
Abraham M. Karkowsky, Michael V. W. Bergamini, and Marian Orlowski

4744 **Regulation of adenylate cyclase from glial tumor cells by calcium and a calcium-binding protein.**
Margaret A. Brostrom, Charles O. Brostrom, Bruce M. Breckenridge, and Donald J. Wolff

4751 **Comparison of the chemical, physical, and survival properties of normal and Z-variant α-1-antitrypsins.**
Raymond R. Miller, Mark S. Kuhlenschmidt, Carole J. Coffee, Ingrid Kuo, and Robert H. Glew

4758 **Mechanism and kinetics of the thermal activation of glucocorticoid hormone-receptor complex.**
Michel Atger and Edwin Milgrom

4763 **Titration of the carboxyhemoglobin tetramer-dimer equilibrium by inositol hexaphosphate.**
Stephen L. White

4770 **Submicrosomal localization of prolyl hydroxylase from chick embryo limb bone.**
Beverly Peterkofsky and Rosemarie Assad

4778 **Characterization of cytoplasmic actin isolated from *Acanthamoeba castellanii* by a new method.**
David J. Gordon, Evan Eisenberg, and Edward D. Korn

4787 ***Neurospora crassa* glutamine synthetase. Purification by affinity chromatography and characterization of subunit structure.**
Rafael Palacios

4792 **Crystallization and preliminary crystal data of iron-containing superoxide dismutase from *Pseudomonas ovalis*.**
Fumiyuki Yamakura, Koji Suzuki, and Yukio Mitsui

COMMUNICATION

4794 **Specific sodium-22 binding to a purified sodium + potassium adenosine triphosphatase. Inhibition by ouabain.**
Kenichi Kaniike, George E. Lindenmayer, Earl T. Wallick, Lois K. Lane, and Arnold Schwartz

ADDITIONS AND CORRECTIONS

4796 **Superoxide dismutase. Reversible removal of manganese and its substitution by cobalt, nickel, or zinc. Vol. 251 (1976) 1217–1218.**
Dennis E. Ose and Irwin Fridovich

August 25, 1976

4797 **Mechanism of activation of bovine Factor VII. Products of cleavage by Factor X_a.**
Robert Radcliffe and Yale Nemerson

4803 **25-Hydroxyvitamin D transport in human plasma. Isolation and partial characterization of calcifidiol-binding protein.**
John G. Haddad, Jr. and Jean Walgate

4810 **Purification and characterization of human leukocyte interferon components.**
Esa T. Törmä and Kurt Paucker

4817 **Rates of phosphorylation and dephosphorylation of phosphoglycerate mutase and bisphosphoglycerate synthase.**
Zelda B. Rose and Syamalima Dube

4823 **Hypoxanthine transport by cultured Chinese hamster lung fibroblasts.**
Bernadette L. Alford and Eugene M. Barnes, Jr.

4828 **Pulmonary angiotensin-converting enzyme. Interspecies homology and inhibition by heterologous antibody *in vivo*.**
James M. Conroy, Helene Hoffman, Edward S. Kirk, Heinz O. Hirzel, Edmund H. Sonnenblick, and Richard L. Soffer

4833 **Specific herpes simplex virus-induced incorporation of 5-iodo-5′-amino-2′,5′-dideoxyuridine into deoxyribonucleic acid.**
Ming S. Chen, David C. Ward, and William H. Prusoff

4839 **5-Iodo-5′-amino-2′,5′-dideoxyuridine-5′-*N*′-triphosphate. Synthesis, chemical properties, and effect on *Escherichia coli* thymidine kinase activity.**
Ming S. Chen, David C. Ward, and William H. Prusoff

4843 **Effect of estradiol on rat uterus DNA-dependent RNA polymerases. Studies on solubilized enzymes.**
Jean-Claude Courvalin, Marie-Madeleine Bouton, Etienne-Emile Baulieu, Pierre Nuret, and Pierre Chambon

4850 **Purification, properties, and substrate specificities of phosphoprotein phosphatase(s) from rabbit liver.**
Ramji L. Khandelwal, Jackie R. Vandenheede, and Edwin G. Krebs

4859 **Structural polypeptides of mammalian type C RNA viruses. Isolation and immunologic characterization of a low molecular weight polypeptide, p10.**
Mariano Barbacid, John R. Stephenson, and Stuart A. Aaronson

4867 **Immunological evidence for substrate-induced conformational alterations in human carbonic anhydrase B.**
Emmanuel Shapira and Yoav Ben-Yoseph

4872 **Nucleophilic addition reactions of free and enzyme-bound deazaflavin.**
Marilyn Schuman Jorns and Louis B. Hersh

4882 **Metabolism of benzo[*a*]pyrene and benzo[*a*]pyrene derivatives to mutagenic products by highly purified hepatic microsomal enzymes.**
Alexander W. Wood, Wayne Levin, Anthony Y. H. Lu, Haruhiko Yagi, Oscar Hernandez, Donald M. Jerina, and A. H. Conney

4891 **Free ribosomes in physiologically nondividing cells. Human peripheral lymphocytes.**
Herbert L. Cooper, Shelby L. Berger, and Richard Braverman

4901 **Microsomal membrane permeability and the hepatic glucose-6-phosphatase system. Interactions of the system with D-mannose 6-phosphate and D-mannose.**
William J. Arion, Lawrence M. Ballas, Alex J. Lange, and Bruce K. Wallin

4908 **Characteristics of acetaldehyde oxidation in rat liver mitochondria.**
Yasushi Hasumura, Rolf Teschke, and Charles S. Lieber

4914 **Rat high density lipoprotein subfraction (HDL_3) uptake and catabolism by isolated rat liver parenchymal cells.**
Tsuguhiko Nakai, Patricia S. Otto, Diana L. Kennedy, and Thomas F. Whayne, Jr.

4922 **Cyclic adenosine 3′:5′-monophosphate phosphodiesterase. Distinct forms in human lymphocytes and monocytes.**
W. Joseph Thompson, Charles P. Ross, W. Jackson Pledger, Samuel J. Strada, Robert L. Banner, and Evan M. Hersh

4930 **Preparation and characterization of hormone-sensitive, resealed erythrocyte ghosts.**
Michael L. Steer, Claire Baldwin, and Alexander Levitzki

4936 **Sterospecific, high affinity binding of 2,3,7,8-tetrachlorodibenzo-*p*-dioxin by hepatic cytosol. Evidence that the binding species is receptor for induction of aryl hydrocarbon hydroxylase.**
Alan Poland, Edward Glover, and Andrew S. Kende

4947 **Gonadotropin binding factor(s). Extraction of high affinity gonadotropin binding sites from rat testis and partial characterization of their interaction with human follitropin, lutropin, and choriogonadotropin.**
Vinod K. Bhalla, Joyce Haskell, Harry Grier, and Virendra B. Mahesh

4958 **Metabolism and excretion of exogenous adenosine 3′:5′-monophosphate and guanosine 3′:5′-monophosphate. Studies in the isolated perfused rat kidney and in the intact rat.**
Richard Coulson

4968 **Conformational relevance of the β6Glu → Val mutation in the β subunits and in the β(1–55) and β(1–30) peptides of hemoglobin S.**
Clara Fronticelli and Robert Gold

4973 **Lipid peroxidation and alteration of membrane lipids in isolated hepatocytes exposed to carbon tetrachloride.**
Charles C. Weddle, K. Roger Hornbrook, and Paul B. McCay

4979 **Purification and characterization of the carrier protein for juvenile hormone from the hemolymph of the tobacco hornworm *Manduca sexta* Johannson (Lepidoptera: Sphingidae).**
Karl J. Kramer, Peter E. Dunn, Ronald C. Peterson, Hidelisa L. Seballos, Larry L. Sanburg, and John H. Law

4986 **Formation and properties of retinylphosphate galactose.**
Per A. Peterson, Lars Rask, Torsten Helting, Lars Östberg, and Yvonne Fernstedt

4996 **δ-Aminolevulinic acid synthetase in the heart.**
Daniel W. Briggs, Lyman W. Condie, Rick M. Sedman, and Thomas R. Tephly

5002 **Effect of Δ^9-tetrahydrocannabinol on mitochondrial NADH-oxidase activity.**
Alica Bartova and Marion K. Birmingham

5007 **Negative cooperativity among β-adrenergic receptors in frog erythrocyte membranes.**
Lee E. Limbird and Robert J. Lefkowitz

5015 **Isolation and characterization of subcellular membranes with altered phospholipid composition from cultured fibroblasts.**
Friedhelm Schroeder, Joel F. Perlmutter, Michael Glaser, and P. Roy Vagelos

5027 **Pathway of nitrogen metabolism after fixation of ^{13}N-labeled nitrogen gas by the cyanobacterium, *Anabaena cylindrica*.**
C. Peter Wolk, Joseph Thomas, Paul W. Shaffer, Sam M. Austin, and Aaron Galonsky

5035 **The allosteric regulation of hexokinase C from amphibian liver.**
Tito Ureta

5043 **Mechanism of formation of reovirus mRNA 5′-terminal blocked and methylated sequence, m^7GpppG^mpC.**
Yasuhiro Furuichi, S. Muthukrishnan, Jenö Tomasz, and Aaron J. Shatkin

5054 **Synthesis *in vitro* of intrinsic membrane proteins by free, membrane-bound, and Golgi apparatus-associated polyribosomes from rat liver.**
John H. Elder and D. James Morré

5069 **Relationship between configuration, function, and permeability in calcium-treated mitochondria.**
Douglas R. Hunter, Robert A. Haworth, and James H. Southard

5078 **High uptake of *myo*-inositol by rat pancreatic tissue *in vitro* stimulates secretion.**
Frank Slaby and Joseph Bryan

5087 **Characteristics of guanosine triphosphate cyclohydrolase I purified from *Escherichia coli*.**
John J. Yim and Gene M. Brown

5095 **Mechanism of rat liver microsomal stearyl-CoA desaturase. Studies of the substrate specificity, enzyme-substrate interactions, and the function of lipid.**
Harry G. Enoch, Angel Catalá, and Philipp Strittmatter

5104 **Formyl-methenyl-methylenetetrahydrofolate synthetase (combined). An ovine protein with multiple catalytic activities.**
James L. Paukert, Linda D'Ari Straus, and Jesse C. Rabinowitz

COMMUNICATION

5112 **Effect of ethanesulfonic acid buffers and pH on the accumulation of a nervous system-specific protein (S-100) and a glial-enriched enzyme in a clonal line of rat astrocytes (C_6).**
Steven E. Pfeiffer and Harry Eagle

iii **Cumulative author index. Numbers 1 through 16.**

September 10, 1976

5115 **Fragmentation of the 95,000-dalton transmembrane polypeptide in human erythrocyte membranes. Arrangement of the fragments in the lipid bilayer.**
L. Kurt Drickamer

5124 ***Escherichia coli* tyrosine transfer ribonucleic acid genes. Nucleotide sequences of their promoters and of the regions adjoining C-C-A ends.**
Takao Sekiya, Roland Contreras, Hans Küpper, Arthur Landy, and H. Gobind Khorana

5141 **Reversible inhibition of glucose transport in human erythrocytes by a series of pyridine derivatives.**
Robert Hershfield and Frederic M. Richards

5149 **Incorporation of D-[3-^{3}H,*U*-^{14}C]glucose into glycerolipid via acyl dihydroxyacetone phosphate in untransformed and viral-transformed BHK-21-c13 fibroblasts.**
Robert J. Pollock, Amiya K. Hajra, and Bernard W. Agranoff

5155 **Effect of a supernatant protein on microsomal squalene epoxidase and 2,3-oxidosqualene-lanosterol cyclase.**
Yeheskel A. Saat and Konrad E. Bloch

5161 **Phospholipid-protein interactions in the Ca^{2+}-adenosine triphosphatase of sarcoplasmic reticulum.**
Aileen F. Knowles, Esther Eytan, and Efraim Racker

5166 **Progesterone-binding components of chick oviduct. *In vitro* effects of purified hormone-receptor complexes on the initiation of RNA synthesis in chromatin.**
Robert J. Schwartz, Robert W. Kuhn, Richard E. Buller, William T. Schrader, and Bert W. O'Malley

5178 **Progesterone-binding components of chick oviduct. *In vitro* effect of receptor subunits on gene transcription.**
Richard E. Buller, Robert J. Schwartz, William T. Schrader, and Bert W. O'Malley

5187 **Titration behavior of individual tyrosine residues of myoglobins from sperm whale, horse, and red kangaroo. Application of natural abundance carbon 13 nuclear magnetic resonance spectroscopy.**
David J. Wilbur and Adam Allerhand

5195 **Two substrate binding sites on tryptophanyl transfer ribonucleic acid synthetase of *Escherichia coli*.**
Karl H. Muench

5200 **Studies on the α-adrenergic activation of hepatic glucose output. I. Studies on the α-adrenergic activation of phosphorylase and gluconeogenesis and inactivation of glycogen synthase in isolated rat liver parenchymal cells.**
Nancy J. Hutson, Faith T. Brumley, Françoise D. Assimacopoulos, Sandra C. Harper, and John H. Exton

5209 **Studies on the α-adrenergic activation of hepatic glucose output. II. Investigation of the roles of adenosine 3′:5′-monophosphate and adenosine 3′:5′-monophosphate-dependent protein kinase in the actions of phenylephrine in isolated hepatocytes.**
Alan D. Cherrington, Françoise D. Assimacopoulos, Sandra C. Harper, Jackie D. Corbin, Charles R. Park, and John H. Exton

5219 **Control of mutation frequency by bacteriophage T4 DNA polymerase. I. The CB120 antimutator DNA polymerase is defective in strand displacement.**
Frances D. Gillin and Nancy G. Nossal

5225 **Control of mutation frequency by bacteriophage T4 DNA polymerase. II. Accuracy of nucleotide selection by the L88 mutator, CB120 antimutator, and wild type phage T4 DNA polymerases.**
Frances D. Gillin and Nancy G. Nossal

5233 **Human plasma lipoproteins as accelerators of prothrombin activation.**
S. Paul Bajaj, Judith A. K. Harmony, Martino Martinez-Carrion, and Francis J. Castellino

5237 **α-Hydroxylation of lignoceric and nervonic acids in the brain. Effects of altered thyroid function on postnatal development of the hydroxylase activity.**
Saood Murad, Geneva D. Strycharz, and Yasuo Kishimoto

5242 **Structure of ATP citrate lyase from rat liver. Physicochemical studies and proteolytic modification.**
Manoranjan Singh, E. Glen Richards, Amal Mukherjee, and Paul A. Srere

5251 **Effect of cations and anions on the steady state kinetics of energy-dependent Ca^{2+} transport in rat liver mitochondria.**
Susan M. Hutson, Douglas R. Pfeiffer, and Henry A. Lardy

5259 **On the mechanism of regulation of ω oxidation of fatty acids.**
Ingemar Björkhem

5267 **Reactivity of the phosphopyridoxal groups of cystathionase.**
Troy Beeler and J. E. Churchich

5272 **Corticosteroid-binding proteins in human colostrum and milk and rat milk.**
Donna W. Payne, Li-Hia Peng, William H. Pearlman, and Luther M. Talbert

5280 **Digestion of native collagen, denatured collagen, and collagen fragments by extracts of rat liver lysosomes.**
John W. Coffey, Christa Fiedler-Nagy, Alex G. Georgiadis, and Richard A. Salvador

5283 **Modification of the 5′ terminus of mRNA by an RNA (guanine-7-)-methyltransferase from HeLa cells.**
Marcia J. Ensinger and Bernard Moss

5292 **Carbohydrate structure of glycopeptides isolated from an hepatic membrane-binding protein specific for asialoglycoproteins.**
Toshisuke Kawasaki and Gilbert Ashwell

5300 **Oligopeptide transport in proline peptidase mutants of *Salmonella typhimurium*.**
Margaret Belynda Jackson, Jeffrey M. Becker, Alvin S. Steinfeld, and Fred Naider

5310 ***In vitro* activation of rat liver phenylalanine hydroxylase by phosphorylation.**
Jean-Pierre Abita, Sheldon Milstien, Norman Chang, and Seymour Kaufman

5315 **Oxidative phosphorylation in right-side-out membrane vesicles from *Escherichia coli*.**
Tomofusa Tsuchiya

5321 **Purification of intact Old Yellow Enzyme using an affinity matrix for the sole chromatographic step.**
Aaron S. Abramovitz and Vincent Massey

5327 **Interaction of phenols with Old Yellow Enzyme. Physical evidence for charge-transfer complexes.**
Aaron S. Abramovitz and Vincent Massey

5337 **Some properties of a detergent-solubilized NADPH-cytochrome *c* (cytochrome P-450) reductase purified by biospecific affinity chromatography.**
Yukio Yasukochi and Bettie Sue Siler Masters

5345 **Characterization of calcium binding to adipocyte plasma membranes.**
Jay M. McDonald, David E. Bruns, and Leonard Jarett

5352 **Reduced nicotinamide adenine dinucleotide phosphate, a structural and conformational probe of chicken liver fatty acid synthetase.**
K. R. Srinivasan and Suriender Kumar

5361 **Deacetylation reaction catalyzed by *Salmonella* phage c341 and its baseplate parts.**
Shintaro Iwashita and Shiro Kanegasaki

5366 **Ethanol metabolism by a transplantable hepatocellular carcinoma. Role of microsomes and mitochondria.**
Arthur I. Cederbaum, Frederick F. Becker, and Emanuel Rubin

5375 **Physical properties of antitumor glutaminase-asparaginase from *Pseudomonas 7A*.**
John S. Holcenberg, David C. Teller, and Joseph Roberts

5381 **Interaction of human interferons with immobilized hydrophobic amino acids and dipeptides.**
Eugene Sulkowski, Mary W. Davey, and William A. Carter

5386 **Identification of the covalently bound flavin of thiamin dehydrogenase.**
William C. Kenney, Dale E. Edmondson, and Richard L. Seng

5391 **Chemical properties of two antigens controlled by the major histocompatibility complex of the chicken.**
Andreas Ziegler and Richard Pink

5397 **Association of the *Ah* locus with specific changes in metyrapone and ethylisocyanide binding to mouse liver microsomes.**
Georg F. Kahl, Regine Kahl, Kenji Kumaki, and Daniel W. Nebert

5408 **Phosphorylation of rat liver ribonucleic acid polymerase I by nuclear protein kinases.**
James Hirsch and Orlando J. Martelo

5414 **Mechanism of ATP hydrolysis by sarcoplasmic reticulum and the role of phospholipids.**
Hiroshi Nakamura, Robert L. Jilka, Ricardo Boland, and Anthony N. Martonosi

COMMUNICATIONS

5424 **Modification of the alkali light chains of skeletal myosin inhibits actin binding and adenosine triphosphate cleavage.**
Paul D. Wagner and Ralph G. Yount

5427 **Rapid purification of detergent-solubilized HLA antigen by affinity chromatography employing anti-β_2-microglobulin serum.**
Richard J. Robb, Jack L. Strominger, and Dean L. Mann

ADDITIONS AND CORRECTIONS

5429 **Hormone-stimulated desensitization of hormone-dependent adenylyl cyclase. Dual action of luteinizing hormone on pig Graafian follicle membranes. Vol. 251 (1976) 2653–2663.**
Jöel Bockaert, Mary Hunzicker-Dunn, and Lutz Birnbaumer

5429 **Enzymatic probes of lipoprotein structure. Hydrolysis of human serum low density lipoprotein-2 by phospholipase A_2. Vol. 251 (1976) 3823–3830.**
Laurence P. Aggerbeck, Ferenc J. Kézdy, and Angelo M. Scanu

September 25, 1976

5431 **Kinetic competence of a phosphoryl enzyme intermediate in the glucose-1,6-P_2 synthase-catalyzed reaction. Purification, properties, and kinetic studies.**
Lee-Jun Wong and Irwin A. Rose

5440 **3-Deoxy-D-*arabino*-heptulosonate 7-phosphate synthase. Purification, properties, and kinetics of the tyrosine sensitive isoenzyme from *Escherichia coli*.**
Ronald Schoner and Klaus M. Herrmann

5448 **Human adenosine deaminase. Distribution and properties.**
Martin B. Van der Weyden and William N. Kelley

5457 **Primary structure of human carbonic anhydrase C.**
Louis E. Henderson, Dag Henriksson, and Per Olof Nyman

5464 **Biochemical characterization of collagens synthesized by fibroblasts derived from normal and diseased human gingiva.**
A. Sampath Narayanan and Roy C. Page

5472 **Physical and chemical studies on bacterial superoxide dismutases. Purification and some anion binding properties of the iron-containing protein of *Escherichia coli* B.**
Thomas O. Slykhouse and James A. Fee

5478 **Stereochemistry of the formation of cysteine by *O*-acetylserine sulfhydrase.**
Heinz G. Floss, Erwin Schleicher, and Rowell Potts

5483 **Studies on the effects of coenzyme A—SH:acetyl-coenzyme A, nicotinamide adenine dinucleotide:reduced nicotinamide adenine dinucleotide, and adenosine diphosphate:adenosine triphosphate ratios on the interconversion of active and inactive pyruvate dehydrogenase in isolated rat heart mitochondria.**
Richard G. Hansford

5490 **Studies on the attachment of carbohydrate to ovalbumin nascent chains in hen oviduct.**
Mary L. Kiely, G. Stanley McKnight, and Robert T. Schimke

5496 **Purification and properties of sterol carrier protein.**
Mavasandra V. Srikantaiah, Elizabeth Hansbury, Edward D. Loughran, and Terence J. Scallen

5505 **Electron paramagnetic resonance of the tungsten derivative of rat liver sulfite oxidase.**
Jean L. Johnson and K. V. Rajagopalan

5512 **Shortening of the poly(A) region of mouse globin messenger RNA.**
Christian G. Merkel, T. Gordon Wood, and Jerry B. Lingrel

5516 **Synthesis of ribosomal proteins L7L12 in relaxed and stringent strains of *Escherichia coli*.**
Jeremiah J. Morrissey, Leanne E. Cupp, Herbert Weissbach, and Nathan Brot

5522 **Regulation of carbohydrate permeases and adenylate cyclase in *Escherichia coli*. Studies with mutant strains in which Enzyme I of the phosphoenolpyruvate:sugar phosphotransferase system is thermolabile.**
Lony Castro, Brigitte U. Feucht, M. Larry Morse, and Milton H. Saier, Jr.

5528 **Purification of a toxic protein from scorpion venom which activates the action potential Na^+ ionophore.**
William A. Catterall

5537 **Tetramer-dimer dissociation in hemoglobin and the Bohr effect.**
Donald H. Atha and Austen Riggs

5544 **Biochemical evidence that Semliki Forest virus obtains its envelope from the plasma membrane of the host cell.**
Christopher D. Richardson and Dennis E. Vance

5551 **Purification and properties of rabbit reticulocyte protein synthesis initiation factors M2Bα and M2Bβ.**
Wayne M. Kemper, Karen W. Berry, and William C. Merrick

5558 **Rapid transfer of oxygens from inorganic phosphate to glutamine catalyzed by *Escherichia coli* glutamine synthetase.**
Barry O. Stokes and Paul D. Boyer

5565 **Effect of estrogen on gene expression in the chick oviduct. Studies on the initiation of RNA synthesis on chromatin *in vitro*.**
Ming-Jer Tsai, Sophia Y. Tsai, Howard C. Towle, and Bert W. O'Malley

5575 **Purification of the cyclooxygenase that forms prostaglandins. Demonstration of two forms of iron in the holoenzyme.**
Martin Hemler, William E. M. Lands, and William L. Smith

5580 **Effect of single and double peptide bond scission by trypsin on the structure and activity of staphylococcal enterotoxin C.**
Leonard Spero, Beverly Y. Griffin, John L. Middlebrook, and Joseph F. Metzger

5589 **Purification, size, and properties of the complex of orotate phosphoribosyltransferase: orotidylate decarboxylase from mouse Ehrlich ascites carcinoma.**
Prabhakar Rao Kavipurapu and Mary Ellen Jones

5600 **Hysteretic response of human erythrocyte pyruvate kinase to phosphoenolypyruvate. Potential role in regulation of 2,3-bisphosphoglycerate metabolism.**
John A. Badwey and Edward W. Westhead

5607 **Binding of progesterone receptor by nuclear preparations of rabbit and guinea pig uterus.**
Judith Saffran, Bonnie K. Loeser, Sally A. Bohnett, and Lee E. Faber

5614 **ATP-dependent calcium transport in isolated membrane vesicles from *Azotobacter vinelandii*.**
Pinakilal Bhattacharyya and Eugene M. Barnes, Jr.

5620 **Binding properties of androgen receptors. Evidence for identical receptors in rat testis, epididymis, and prostate.**
Elizabeth M. Wilson and Frank S. French

5630 **Phosphofructokinase. I. Mechanism of the pH-dependent inactivation and reactivation of the rabbit muscle enzyme.**
Paul E. Bock and Carl Frieden

5637 **Phosphofructokinase. II. Role of ligands in pH-dependent structural changes of the rabbit muscle enzyme.**
Paul E. Bock and Carl Frieden

5644 **Phosphofructokinase. III. Correlation of the regulatory kinetic and molecular properties of the rabbit muscle enzyme.**
Carl Frieden, Helen R. Gilbert, and Paul E. Bock

5648 **Role of γ-carboxyglutamic acid. An unusual protein transition required for the calcium-dependent binding of prothrombin to phospholipid.**
Gary L. Nelsestuen

5657 **Inhibition of HeLa cell messenger RNA translation by 7-methylguanosine 5′-monophosphate.**
Lee A. Weber, Edith R. Feman, Eileen D. Hickey, Mary C. Williams, and Corrado Baglioni

5663 **Carbamylation of aspartate transaminase and the pK value of the active site lysyl residue.**
Juan C. Slebe and Marino Martinez-Carrion

5670 **Re-evaluation of the H^+/site ratio of mitochondrial electron transport with the oxygen pulse technique.**
Martin D. Brand, Baltazar Reynafarje, and Albert L. Lehninger

5680 **Solubilization of nerve growth factor receptors of rabbit superior cervical ganglia.**
Shailesh P. Banerjee, Pedro Cuatrecasas, and Solomon H. Snyder

5686 **Purification and characterization of a lectin from *Wistaria floribunda* seeds.**
Tsutomu Kurokawa, Masao Tsuda, and Yukio Sugino

5694 **Studies on the role of plasminogen activator in ovulation. *In vitro* response of granulosa cells to gonadotropins, cyclic nucleotides, and prostaglandins.**
Sidney Strickland and William H. Beers

5703 **Nonuniform biosynthesis of multiple hemoglobins in the adult rat and guinea pig.**
Ellen Weiser, Chien-K. Yeh, Win Lin, and Abraham Mazur

5711 **Facile alkylation of methionine by benzyl bromide and demonstration of fumarase inactivation accompanied by alkylation of a methionine residue.**
Gary A. Rogers, Natalie Shaltiel, and Paul D. Boyer

5718 **Requirement for homologous rabbit reticulocyte initiation factor 3 for initiation of α- and β-globin mRNA translation in a crude protozoal cell-free system.**
Judith Ilan and Joseph Ilan

5726 **Cyclic 3′:5′-nucleotide phosphodiesterase. Interconvertible multiple forms and their effects on enzyme activity and kinetics.**
Anne-Lise Pichard and Wai Yiu Cheung

5738 **Triacylglycerol synthesis in isolated fat cells. Evidence that the *sn*-glycerol-3-phosphate and dihydroxyacetone phosphate acyltransferase activities are dual catalytic functions of a single microsomal enzyme.**
David M. Schlossman and Robert M. Bell

5745 **Properties of a human liver ribonuclease. Inhibition by polynucleotides and specificity for phosphodiester bond cleavage to yield purine nucleosides at the 5′ termini.**
Joseph J. Frank and Carl C. Levy

5752 **Purification of human spleen ribonuclease by immunoabsorption. Similarity of the enzyme with human liver ribonuclease.**
Edward A. Neuwelt, Joseph J. Frank, and Carl C. Levy

5759 **Accumulation of neutral lipids in *Saccharomyces carlsbergensis* by *myo*-inositol deficiency and its mechanism. Reciprocal regulation of yeast acetyl-CoA carboxylase by fructose bisphosphate and citrate.**
Eüchi Hayashi, Ryuichi Hasegawa, and Takako Tomita

5770 **Interaction of diphtheria toxin with mammalian cell membranes.**
Patrice Boquet and Alwin M. Pappenheimer, Jr.

5779 **Collagen cross-linking. Purification and substrate specificity of lysyl oxidase.**
Robert C. Siegel and Joseph C. C. Fu

5786 **Collagen cross-linking. Synthesis of collagen cross-links *in vitro* with highly purified lysyl oxidase.**
Robert C. Siegel

5793 **Dynein 2. A new adenosine triphosphatase from sea urchin sperm flagella.**
Kazuo Ogawa and I. R. Gibbons

5802 **Stimulation of guanylate cyclase of fibroblasts by free fatty acids.**
David Wallach and Ira Pastan

COMMUNICATIONS

5810 **Isolation of a human plasmin-derived, functionally active, light (B) chain capable of forming with streptokinase an equimolar light (B) chain·streptokinase complex with plasminogen activator activity.**
Louis Summaria and Kenneth C. Robbins

5814 **Stimulation of prostaglandin synthesis by bradykinin and thrombin and their mechanisms of action on MC5-5 fibroblasts.**
Su-chen L. Hong and Lawrence Levine

5817 **Mechanism for enzymatic thioether formation. Mechanism of action of *S*-adenosylhomocysteinase.**
John L. Palmer and Robert H. Abeles

5820 **Determination of the Michaelis-Menten constant for β-hydroxy-β-methylglutaryl coenzyme A reductase. Demonstration of a substrate affinity 10-fold greater than previously reported.**
Ronald B. Langdon and Raymond E. Counsell

5824 **Inhibition of oxalacetate decarboxylation during C_4 photosynthesis by 3-mercaptopicolinic acid.**
Thomas B. Ray and Clanton C. Black

5827 **Vitamin K-dependent carboxylase. Development of a peptide substrate.**
J. W. Suttie, J. M. Hageman, S. R. Lehrman, and D. H. Rich

5831 **Two soluble forms of guanosine 5′-(β,γ-imino) triphosphate and fluoride-activated adenylate cyclase.**
Eva J. Neer

5835 **Identification of a functional arginine residue involved in coenzyme binding by the NADP-specific glutamate dehydrogenase of *Neurospora*.**
Brian M. Austen and Emil L. Smith

October 10, 1976

5839 **Inhibition of phosphoribosylpyrophosphate synthesis by purine nucleosides in human erythrocytes.**
Guy Planet and Irving H. Fox

5845 **Determination of the subunit composition of haptoglobin 2-1 polymers using quantitative densitometry of polyacrylamide gels.**
David C. Hooper and Andrew C. Peacock

5852 **Structure of the accumulating oligosaccharide in fucosidosis.**
Grace Chen Tsay, Glyn Dawson, and Sun-Sang J. Sung

5860 **Concanavalin A binding to membranes of the Golgi apparatus and resultant modification of galactosyltransferase activity.**
Mary E. M. Young, Mario A. Moscarello, and John R. Riordan

5866 ***Eco*RI endonuclease. Physical and catalytic properties of the homogeneous enzyme.**
Paul Modrich and Donna Zabel

5875 **X-ray and functional studies of hemoglobins Nancy and Cochin-Port-Royal.**
Arthur Arnone, Gérard Gacon, and Henri Wajcman

5881 **A stereochemical method for detection of ATP terminal phosphate transfer in enzymatic reactions. Glutamine synthetase.**
Christian F. Midelfort and Irwin A. Rose

5888 **Poly(A)-rich ribonucleoprotein complexes from HeLa cell messenger RNA.**
Valerie M. Kish and Thoru Pederson

5895 **Steroid 5α-reductase in cultured human fibroblasts. Biochemical and genetic evidence for two distinct enzyme activities.**
Ronald J. Moore and Jean D. Wilson

5901 **The NH_2- and COOH-terminal amino acid sequence of nuclear protein A24.**
Mark O. J. Olson, Ira L. Goldknopf, Karl A. Guetzow, Gordon T. James, T. Clay Hawkins, C. Jeanne Mays-Rothberg, and Harris Busch

5904 **Structure of plant cell walls. Purification and characterization of a β-1,4-galactanase which degrades a structural component of the primary cell walls of dicots.**
John M. Labavitch, Leslie E. Freeman, and Peter Albersheim

5911 **The NADH dehydrogenase of the respiratory chain of *Escherichia coli*. I. Properties of the membrane-bound enzyme, its solubilization, and purification to near homogeneity.**
George F. Dancey, Alan E. Levine, and Bennett M. Shapiro

5921 **The NADH dehydrogenase of the respiratory chain of *Escherichia coli*. II. Kinetics of the purified enzyme and the effects of antibodies elicited against it on membrane-bound and free enzyme.**
George F. Dancey and Bennett M. Shapiro

5929 **Purification and characterization of two lectins from *Caragana arborescens* seeds.**
Robert Bloch, Jennifer Jenkins, Jeffrey Roth, and Max M. Burger

5936 **Stimulus-secretion coupling of glucose-induced insulin release. Metabolism of α- and β-D-glucose in isolated islets.**
Willy J. Malaisse, Abdullah Sener, Majda Koser, and André Herchuelz

5944 **Platelet glycocalicin. I. Orientation of glycoproteins of the human platelet surface.**
Tadayoshi Okumura and G. A. Jamieson

5950 **Platelet glycocalicin. II. Purification and characterization.**
Tadayoshi Okumura, Christian Lombart, and G. A. Jamieson

5956 **Isolation and characterization of α_2-plasmin inhibitor from human plasma. A novel proteinase inhibitor which inhibits activator-induced clot lysis.**
Masaaki Moroi and Nobuo Aoki

5966 **Aspartate transcarbamylase of *Escherichia coli*. Heterogeneity of binding sites for carbamyl phosphate and fluorinated analogs of carbamyl phosphate.**
John A. Ridge, Mary Fedarko Roberts, Martin H. Schaffer, and George R. Stark

5976 **Evidence from ^{13}C NMR for protonation of carbamyl-P and *N*-(phosphonacetyl)-L-aspartate in the active site of aspartate transcarbamylase.**
Mary Fedarko Roberts, Stanley J. Opella, Martin H. Schaffer, Hannah M. Phillips, and George R. Stark

5986 **Determination of ligand binding: partial and full saturation of aspartate transcarbamylase. Applicability of a filter assay to weakly binding ligands.**
Peter Suter and Jurg P. Rosenbusch

5992 **Electronic structure and bonding of the amino acids containing first row atoms.**
David A. Dixon and William N. Lipscomb

6001 **Kinetic analysis of the action of soybean lipoxygenase on linoleic acid.**
James W. Lagocki, Edward A. Emken, John H. Law, and Ferenc J. Kézdy

6007 **Maternal-fetal carnitine relationships and neonatal ketosis in the rat.**
Carlos Robles-Valdes, J. Denis McGarry, and Daniel W. Foster

6013 **Conformational stability of the polypeptide components of human high density serum lipoprotein.**
Jacqueline A. Reynolds

6016 **Effect of glycosylation on the *in vivo* circulating half-life of ribonuclease.**
John W. Baynes and Finn Wold

6025 **Structure and action of heteronemertine polypeptide toxins. Primary structure of *Cerebratulus lacteus* toxin B-IV.**
Kenneth M. Blumenthal and William R. Kem

6030 **Amino acid transport in isolated rat thymocytes. Effects of divalent cations and ethanol.**
Shmuel Batzri and Jerry D. Gardner

6036 **Oxidation of *p*-cresol by horseradish peroxidase compound I.**
W. Donald Hewson and H. Brian Dunford

6043 **Stoichiometry of the reaction between horseradish peroxidase and *p*-cresol.**
W. Donald Hewson and H. Brian Dunford

6053 **Hormone secretion and glucose metabolism in islets of Langerhans of the isolated perfused pancreas from normal and streptozotocin diabetic rats.**
Franz M. Matschinsky, Anthony S. Pagliara, Barbara A. Hover, Caroline S. Pace, James A. Ferrendelli, and Anne Williams

6062 **Preparation of intact monomeric collagen from rat tail tendon and skin and the structure of the nonhelical ends in solution.**
Gowri Chandrakasan, Dennis A. Torchia, and Karl A. Piez

6068 **Purification and characterization of adrenal cortex mitochondrial cytochrome P-450 specific for cholesterol side chain cleavage activity.**
Hann-Ping Wang and Tokuji Kimura

6075 **Formation of an 80 S methionyl-tRNA initiation com-**

plex with soluble factors from wheat germ.
Marcella Giesen, Ruth Roman, Samarendra N. Seal, and Abraham Marcus

6082 **Biochemical aspects of cardiac muscle differentiation. Possible control of deoxyribonucleic acid synthesis and cell differentiation by adrenergic innervation and cyclic adenosine 3′:5′-monophosphate.**
William C. Claycomb

6090 **Leghemoglobin. An electron paramagnetic resonance and optical spectral study of the free protein and its complexes with nicotinate and acetate.**
Cyril A. Appleby, William E. Blumberg, Jack Peisach, Beatrice A. Wittenberg, and Jonathan B. Wittenberg

6097 **Synthesis of the mitochondrial inner membrane in cultured *Xenopus laevis* oocytes.**
George Koch

6108 **Absence of the major sialoglycoprotein in the membrane of human En(a−) erythrocytes and increased glycosylation of Band 3.**
Carl G. Gahmberg, Gunnar Myllyla, Juhani Leikola, Anna Pirkola, and Stig Nordling

6117 **Action of ATP-dependent DNase from *Hemophilus influenzae* on cross-linked DNA molecules.**
Michael Orlosky and Hamilton O. Smith

6122 **Binding of the ATP-dependent DNase from *Hemophilus influenzae* to duplex DNA molecules.**
Kent W. Wilcox and Hamilton O. Smith

6127 **Mechanism of DNA degradation by the ATP-dependent DNase from *Hemophilus influenzae* Rd.**
Kent W. Wilcox and Hamilton O. Smith

6135 **Isolation of platelet microtubule protein by an immunosorptive method.**
Yasuo Ikeda and Manfred Steiner

COMMUNICATIONS

6142 **Structure of glycogen phosphorylase *a* at 3.0 Å resolution and its ligand binding sites at 6 Å.**
R. J. Fletterick, J. Sygusch, H. Semple, and N. B. Madsen

6147 **Deuterium magnetic resonance spectroscopy of isotopically labeled mammalian cells.**
Eric Oldfield, Michael Meadows, and Michael Glaser

6150 **Active site chlorination of D-amino acid oxidase by *N*-chloro-D-leucine.**
David J. T. Porter and Harold J. Bright

6154 **Identification of an isolated protein essential for peptidoglycan synthesis as the *N*-acetylglucosaminyltransferase.**
Akio Taku and David P. Fan

6157 **Direct evidence for manganese(III) binding to the manganosuperoxide dismutase of *Escherichia coli* B.**
James A. Fee, Edith R. Shapiro, and Thomas H. Moss

ADDITIONS AND CORRECTIONS

6160 **Role of phospholipids in the calcium-dependent ATPase of the sarcoplasmic reticulum. Enzymatic and ESR studies with phospholipid-replaced membranes. Vol. 251 (1976) 4224–4232.**
Cecilia Hidalgo, Noriaki Ikemoto, and John Gergely

October 25, 1076

6161 **Alterations in enzyme and cytochrome profiles of *Rana catesbeiana* liver organelles during thyroxine-induced metamorphosis. Changes in membrane-localized phosphohydrolases, oxidoreductases, and cytochrome levels in response to *in vivo* thyroxine administration.**
Robert F. Brucker and Philip P. Cohen

6170 **Interactions of the actin and nucleotide binding sites on myosin subfragment 1.**
Stefan Highsmith

6173 **Ecto-enzymes of mammary gland and its tumors. Lectin inhibition of 5′-nucleotidase of the 13762 rat mammary ascites carcinoma.**
Kermit L. Carraway, Douglas D. Fogle, Robert W. Chesnut, John W. Huggins, and Coralie A. Carothers Carraway

6179 **D-Serine dehydratase from *Escherichia coli*. Essential arginine residue at the pyridoxal 5′-phosphate binding site.**
Michael N. Kazarinoff and Esmond E. Snell

6183 **Mechanism for the several activities of the glutathione *S*-transferases.**
James H. Keen, William H. Habig, and William B. Jakoby

6189 **Inhibition of gluconeogenesis and lactate formation from pyruvate by N^6,$O^{2'}$-dibutyryl adenosine 3′:5′-monophosphate.**
James P. Mapes and Robert A. Harris

6197 **Purification of a glycoprotein from mouse ascites fluid by immunoaffinity chromatography which is related to the major glycoprotein of murine leukemia viruses. Immunologic and structural comparison with purified viral glycoproteins.**
Stephen J. Kennel

6205 **Activation and inhibition of fat cell adenylate cyclase by fluoride.**
Vincent C. Manganiello and Martha Vaughan

6210 **Kinetics of mucopolysaccharide and glycoprotein synthesis by chick embryo chondrocytes. Effect of D-glucose concentration in the culture medium.**
Jung Ja Kim and H. Edward Conrad

6218 **Endo-β-galactosidase of *Escherichia freundii*. Purification and endoglycosidic action on keratan sulfates, oligosaccharides, and blood group active glycoprotein.**
Michiko N. Fukuda and Go Matsumura

6226 **Methylisocyanate as an antisickling agent and its reaction with hemoglobin S.**
Choong K. Lee

6232 **Isolation and characterization of rat olfactory marker protein.**
Angelica Keller and Frank L. Margolis

6238 **Vitamin K-dependent carboxylase. Solubilization and properties.**
Charles T. Esmon and John W. Suttie

6244 **Differences in phosphofructokinase regulation in normal and tumor rat thyroid cells.**
Maria F. Meldolesi, Vincenzo Macchia, and Paolo Laccetti

6252 **Kinetic analysis of biochemical differentiation in *Dictyostelium discoideum***
William F. Loomis and Steve R. Thomas

6259 **Isolation and identification of the messenger ribonucleic acid for a structural lipoprotein of the *Escherichia coli* outer membrane.**
Keiichi Takeishi, Mitsue Yasumura, Robert Pirtle, and Masayori Inouye

6267 **Partial purification and characterization of a triglyceride lipase from pig adipose tissue.**
Sueo Matsumura, Masafumi Matsuo, and Yasutomi Nishizuka

6274 **Further studies on the isolation and properties of polyriboadenylate polymerase from *Escherichia coli* PR7 (RNase I⁻, *pnp*).**
M. Ramanarayanan and P. R Srinivasan

6287 **Studies on the sites in histones phosphorylated by adenosine 3′:5′-monophosphate-dependent and guanosine 3′:5′-monophosphate-dependent protein kinases.**
Eikichi Hashimoto, Masao Takeda, Yasutomi Nishizuka, Koei Hamana, and Koichi Iwai

6294 **Interaction of manganese with bovine prothrombin and its thrombin-mediated cleavage products.**
S. Paul Bajaj, Thomas Nowak, and Francis J. Castellino

6300 **Crystallization of proteins from polyethylene glycol.**
Alexander McPherson, Jr.

6304 **Inactivation of porcine heart cytoplasmic malate dehydrogenase by pyridoxal 5′-phosphate**

Dennis M. Bleile, J. Larry Jameson, and John H. Harrison

6308 **Quantitative aspects of the conversion of 5β-cholestane intermediates to bile acids in man.**
Charles C. Schwartz, Bertram I. Cohen, Z. Reno Vlahcevic, Daniel H. Gregory, L. Gregg Halloran, Taiju Kuramoto, Erwin H. Mosbach, and Leon Swell

6315 **Bovine adrenal medulla troponin-C. Demonstration of a calcium-dependent conformational change.**
Ingrid C. Y. Kuo and Carole J. Coffee

6320 **Yeast cytochrome *c* messenger RNA. *In vitro* translation and specific immunoprecipitation of the *cyc1* gene product.**
Richard S. Zitomer and Benjamin D. Hall

6327 **Nicotinic acetylcholine receptor from rat brain. Solubilization, partial purification, and characterization.**
Paul M. Salvaterra and Henry R. Mahler

6335 **Studies on nicotinic acetylcholine receptors in mammalian brain. Preliminary characterization of membrane-bound α-bungarotoxin receptors in rat cerebral cortex.**
Carole McQuarrie, Paul M. Salvaterra, Angel De Blas, Jack Routes, and Henry R. Mahler

6340 **Compound X. An intermediate in enzymatic halogenation.**
Robert Chiang, Tsafrira Rand-Meir, Ryu Makino, and Lowell P. Hager

6347 **Binding of chick skin collagen α1 chain by isolated membranes from human platelets.**
Thomas M. Chiang and Andrew H. Kang

6352 **Nucleotide sequence of 5 S ribosomal ribonucleic acid of *Iguana iguana*.**
Kenneth L. Roy and Louise Enns

6355 **Calcium and magnesium regulation of phosphorylation by ATP and ITP in sarcoplasmic reticulum vesicles.**
Diogo Onofre G. Souza and Leopoldo de Meis

6360 ***In vitro* uptake of vitamin A from the retinol-binding plasma protein to mucosal epithelial cells from the monkey's small intestine.**
Lars Rask and Per A. Peterson

6367 ***In vitro* partial relipidation of apolipoproteins in plasma.**
B. Elliot Cham and Brian R. Knowles

6372 **Studies of 5′-nucleotidase in the perfused rat heart. Including measurements of the enzyme in perfused skeletal muscle and liver.**
G. Peter Frick and John M. Lowenstein

6379 **Protein synthesis in rabbit reticulocytes. Characteristics of mRNA (AUG codon)-dependent binding of Met-$tRNA_f^{Met}$ to 40 S and 80 S ribosomes.**
Bandana Chatterjee, Asim Dasgupta, Steven Palmieri, and Naba K. Gupta

6388 **Studies on the disulfide bonds of glycoprotein hormones. Course of reduction of bovine luteinizing hormone, bovine thyroid-stimulating hormone, and their subunits.**
John G. Pierce, Linda C. Giudice, and Joseph R. Reeve

6392 **Studies on the disulfide bonds of glycoprotein hormones. Complete reduction and reoxidation of the disulfide bonds of the α subunit of bovine luteinizing hormone.**
Linda C. Giudice and John G. Pierce

6400 **Lipid-saccharide intermediates in glycoprotein biosynthesis. I. Formation of an oligosaccharide-lipid by thyroid slices and evaluation of its role in protein glycosylation.**
Mary Jane Spiro, Robert G. Spiro, and Vishnu D. Bhoyroo

6409 **Lipid-saccharide intermediates in glycoprotein biosynthesis. II. Studies on the structure of an oligosaccharide-lipid from thyroid.**
Robert G. Spiro, Mary Jane Spiro, and Vishnu D. Bhoyroo

6420 **Lipid-saccharide intermediates in glycoprotein biosynthesis. III. Comparison of oligosaccharide-lipids formed by slices from several tissues.**
Mary Jane Spiro, Robert G. Spiro, and Vishnu D. Bhoyroo

6426 **The NH_2-terminal region of the β chain of sickle hemoglobin. I. Synthesis and purification of oligopeptides.**
Ann Eastlake, John G. Curd, and Alan N. Schechter

6431 **The NH_2-terminal region of the sickle hemoglobin β chain. II. Characterization of monospecific antibodies.**
Neal S. Young, Ann Eastlake, and Alan N. Schechter

6439 **Proteoglycans from bovine proximal humeral articular cartilage. Structural basis for the polydispersity of proteoglycan subunit.**
Lawrence Rosenberg, Carlotta Wolfenstein-Todel, Richard Margolis, Subhash Pal, and William Strider

6445 **Mitogen receptors in chick embryo fibroblasts. Kinetics, specificity, unmasking, and synthesis of ^{125}I-insulin binding sites.**
Mohan K. Raizada and James F. Perdue

6456 **Studies on the regulation of chloroplast NADP-linked glyceraldehyde-3-phosphate dehydrogenase.**
Ricardo A. Wolosiuk and Bob B. Buchanan

COMMUNICATIONS

6462 **Induction of lipogenesis during differentiation in a "preadipocyte" cell line.**
Julia C. Mackall, Adina K. Student, S. Efthimios Polakis, and M. Daniel Lane

6465 **The anomeric configuration of the D-mannosyl retinyl phosphate formed in rat liver microsomes.**
Gloria Chi Rosso, Shoichi Masushige, Christopher D. Warren, Timothy C. Kiorpes, and George Wolf

6468 **Superoxide anion as a mediator of drug-induced oxidative hemolysis.**
Bruce Goldberg and Arnold Stern

6471 **Phosphorylation *in vitro* of eukaryotic initiation factors IF-E2 and IF-E3 by protein kinases.**
Olaf-Georg Issinger, Rob Benne, John W. B. Hershey and Robert R. Traut

6475 **Effects of estrogen on gene expression in the chick oviduct. Control of ovalbumin gene expression by nonhistone proteins.**
Sophia Y. Tsai, Ming-Jer Tsai, Steve E. Harris, and Bert W. O'Malley

ADDITIONS AND CORRECTIONS

6479 **Site-site interactions among insulin receptors. Characterization of the negative cooperativity. Vol. 251 (1976) 1877–1888.**
Pierre De Meyts, A. Raffaele Bianco, and Jesse Roth

iii **Cumulative author index. Numbers 1 through 20**

November 10, 1976

6481 **Inhibition of activated Factor XII by antithrombin-heparin cofactor.**
Nancy Stead, Allen P. Kaplan, and Robert D. Rosenberg

6489 **Binding of thyroid hormones and their analogues to thyroxine-binding globulin in human serum.**
Steven M. Snyder, Ralph R. Cavalieri, Ira D. Goldfine, Sidney H. Ingbar, and Eugene C. Jorgensen

6495 **Activator activities of the transient forms of the human plasminogen·streptokinase complex during its proteolytic conversion to the stable activator complex.**
Gabor Markus, John L. Evers, and Grant H. Hobika

6505 **Enzymatic synthesis of biopterin from D-*erythro*dihydroneopterin triphosphate by extracts of kidneys from Syrian golden hamsters.**
Isao Eto, Kazuo Fukushima, and Tetsuo Shiota

6513 **Biosynthesis of glycosaminoglycans during corneal development.**
Gerald W. Hart

6522 **Studies of chemical modifications of proteins by carbon 13 nuclear magnetic resonance spectroscopy. Reaction of hen egg white lysozyme with iodine.**
Raymond S. Norton and Adam Allerhand

6529 **Purification and characterization of *N*-hydroxy-2-acetylaminofluorene sulfotransferase from rat liver.**
Shu-Chen G. Wu and Karl D. Straub

6537 **Purification and properties of an endo-β-*N*-acetylglucosaminidase from hen oviduct.**
Anthony L. Tarentino and Frank Maley

6544 **Interactions of adenosine diphosphate-ribosylated elongation factor 2 with ribosomes.**
Engin Bermek

6550 **Formation of glutathione conjugates of prostaglandin A_1 in human red blood cells.**
Lauren M. Cagen, Henry M. Fales, and John J. Pisano

6555 **Photochemical studies and ultraviolet sensitization of *Escherichia coli* thymidylate kinase by various halogenated substrate analogs.**
Ming S. Chen, Pauline K. Chang, and William H. Prusoff

6562 **Purification and properties of filamin, an actin binding protein from chicken gizzard.**
Yutaka Shizuta, Hiroko Shizuta, Maria Gallo, Peter Davies, Ira Pastan, and Marc S. Lewis

6568 **Time-dependent changes in *Dictyostelium discoideum* adenylate cyclase activity upon incubation with ATP.**
Edward F. Rossomando and Mary Ann Hesla

6574 **Mechanism of malic enzyme from pigeon liver. Magnetic resonance and kinetic studies of the role of Mn^{2+}.**
Robert Y. Hsu, Albert S. Mildvan, Gu-Gang Chang, and Chien-Hung Fung

6584 **Sugar transport. Properties of mutant bacteria defective in proteins of the phosphoenolpyruvate:sugar phosphotransferase system.**
Milton H. Saier, Jr., Robert D. Simoni, and Saul Roseman

6598 **Sugar transport. The *crr* mutation: its effect on repression of enzyme synthesis.**
Milton H. Saier, Jr. and Saul Roseman

6606 **Sugar transport. Inducer exclusion and regulation of the melibiose, maltose, glycerol, and lactose transport systems by the phosphoenolpyruvate:sugar phosphotransferase system.**
Milton H. Saier, Jr. and Saul Roseman

6616 **Uptake of hydroxocobalamin by rat liver mitochondria. Binding to a mitochondrial protein.**
Wayne A. Fenton, Lalit M. Ambani, and Leon E. Rosenberg

6624 **Kinetics of active center formation in dog plasminogen by streptokinase and activity of a modifed streptokinase.**
K. Nagendra Nath Reddy

6630 **Purification of the carbodiimide-reactive protein component of the ATP energy-transducing system of *Escherichia coli*.**
Robert H. Fillingame

6638 **Purification of a soluble rat liver protein that stimulates microsomal 4-methyl sterol oxidase activity.**
James L. Gaylor and Constance V. Delwiche

6646 **Polyamine stimulation and cation requirements of rabbit liver tRNA nucleotidyltransferase.**
Jeffrey A. Evans and Murray P. Deutscher

6653 **Induction of refractoriness to thyrotropin stimulation in cultured thyroid cells. Dependence on new protein synthesis.**
Basil Rapoport and Richard J. Adams

6662 **Effect of lipids on the reconstitution of D-lactate oxidase in *Escherichia coli* membrane vesicles.**
Carlos George-Nascimento, Salih J. Wakil, Steven A. Short, and H. Ronald Kaback

6667 **Proteins and glycoproteins of membranes from developing chick red cells.**
Michael J. Weise and Vernon M. Ingram

6674 **Enzymatic reactions of methionine sulfoximine. Conversion to the corresponding α-imino and α-keto acids and to α-ketobutyrate and methane sulfinimide.**
Arthur J. L. Cooper, Ralph A. Stephani, and Alton Meister

6683 **Characterization of carnitine acylcarnitine translocase system of heart mitochondria.**
Shri V. Pande and Rehana Parvin

6692 **Kinetic studies on the binding affinity of human hemoglobin for the 4th carbon monoxide molecule, L_4.**
Alice DeYoung, Russell R. Pennelly, Anna L. Tan-Wilson, and Robert W. Noble

6699 **Isolation and partial characterization of monophosphoglycerate mutase from human erythrocytes.**
Richard H. Sheibley and Louis F. Hass

6705 **Effect of inosine 5′-(β,γ-imido)triphosphate and other nucleotides on beef heart mitochondrial ATPase.**
Sheldon M. Schuster, Robert J. Gertschen, and Henry A. Lardy

6711 **Conversion of proparathyroid hormone to parathyroid hormone by a particulate enzyme of the parathyroid gland.**
Ronal R. MacGregor, Luke L. H. Chu, and David V. Cohn

6717 **Metabolic fate of 3,4-dihydroxybutyl-1-phosphonate in *Escherichia coli*. Formation of a novel lipid, the phosphonic acid analogue of phosphatidylglycerophosphate.**
Richard J. Tyhach, Robert Engel, and Burton E. Tropp

6724 **Insulin stimulation of heart glycogen synthase D phosphatase (protein phosphatase).**
Frank Q. Nuttall, Mary C. Gannon, Victor A. Corbett, and Mark P. Wheeler

6730 **Aminoacyl-tRNA conformation. Information from steroid and oligonucleotide probes.**
Diane J. Dvorak, Chev Kidson, and Ruei-Chen Chin

6735 **Microcalorimetric study of the binding of thiodigalactoside to the lactose permease M protein of *Escherichia coli*.**
Anne Belaich, Paule Simonpietri, and Jean-Pierre Belaich

6739 **Use of β-parinaric acid, a novel fluorimetric probe, to determine characteristic temperatures of membranes and membrane lipids from cultured animal cells.**
Friedhelm Schroeder, John F. Holland, and P. Roy Vagelos

6747 **Physical properties of membranes isolated from tissue culture cells with altered phospholipid composition.**
Friedhelm Schroeder, John F. Holland, and P. Roy Vagelos

6757 **2-Fluoroadenosine 3′:5′-monophosphate. A metabolite of 2-fluoroadenosine in mouse cytotoxic lymphocytes.**
Thomas P. Zimmerman, Janet L. Rideout, Gerald Wolberg, Gail S. Duncan, and Gertrude B. Elion

6767 **Proteolytic cleavage of horse liver cytochrome b_5. Primary structure of the heme-containing moiety.**
Juris Ozols, Craig Gerard, and Francisco G. Nobrega

6775 ***Escherichia coli* acetate kinase mechanism studied by net initial rate, equilibrium, and independent isotopic exchange kinetics.**
Mark T. Skarstedt and Emanuel Silverstein

6784 **Quantitative aspects of relationship between glucose 6-phosphate transport and hydrolysis for liver microsomal glucose-6-phosphatase system. Selective thermal inactivation of catalytic component *in situ* at acid pH.**
William J. Arion, Alex J. Lange, and Lawrence M. Ballas

6791 **8-Alkylaminoadenyl nucleotides as probes of dehydrogenase interactions with nucleotide analogs of different glycosyl conformation.**
Frederick E. Evans and Nathan O. Kaplan

6798 **Studies on the structural localization of rabbit H chain allotypic determinants controlled by the *a* locus. Purification and immunological properties of an immunopeptide bearing a3 allotypic determinant(s).**
Aftab A. Ansari, Mariella Carta-Sorcini, Rose G. Mage, and Ettore Appella

6807 **Spectral changes in bovine Factor X associated with activation by the venom coagulant protein of *Vipera russelli*.**
Bruce Furie and Barbara C. Furie

6815 **Nuclear relaxation and gelation study of the interaction of organophosphates with human normal and sickle**

hemoglobins. *In vitro* gelatin of sickle oxyhemoglobin in the presence of inositol hexaphosphate.
Raj K. Gupta

6823 **Isotope labeling of free and aminoacyl transfer RNA synthetase-bound transfer RNA.**
Hubert J. P. Schoemaker and Paul R. Schimmel

6831 **Incorporation of mitochondrial membrane proteins into liposomes containing acidic phospholipids.**
Gera D. Eytan, Margaret J. Matheson, and Efraim Racker

6838 **Spin label studies on conformational changes of apohemoglobin due to heme binding.**
Pui-Wah Lau and Toshio Asakura

6844 **Cell surface receptors for insulin and human growth hormone. Effect of microtubule and microfilament modifiers.**
Emmanuel Van Obberghen, Pierre De Meyts, and Jesse Roth

6852 **Activity of glycogen phosphorylase in the crystalline state.**
Peter J. Kasvinsky and Neil B. Madsen

6860 **Some properties of purified skeletal muscle α-actinin.**
Atsushi Suzuki, Darrel E. Goll, Inderjit Singh, Ronald E. Allen, Richard M. Robson, and Marvin H. Stromer

COMMUNICATIONS

6871 **Banded fibers in high temperature coacervates of elastin peptides.**
Dino Volpin, Ivonne Pasquali-Ronchetti, Dan W. Urry, and Lorenzo Gotte

6874 **Acid-induced phosphorylation of adenosine 5′-diphosphate bound to coupling factor 1 in spinach chloroplast thylakoids.**
Ronald P. Magnusson and Richard E. McCarty

November 25, 1976

6879 **Recommendations for measurement and presentation of biochemical equilibrium data.**
Interunion Commission on Biothermodynamics

6886 **Role of γ-carboxyglutamic acid. Cation specificity of prothrombin and Factor X-phospholipid binding.**
Gary L. Nelsestuen, Margaret Broderius, and Ginger Martin

6894 **Calcium transport ATPase of canine cardiac sarcoplasmic reticulum. A comparison with that of rabbit fast skeletal muscle sarcoplasmic reticulum.**
Munekazu Shigekawa, Jo-Anna M. Finegan, and Arnold M. Katz

6901 **Properties of phenylalanine hydroxylase of cultured hepatoma cells.**
Donald F. Haggerty, George Popják, and Peggy L. Young

6909 **Role of enzymatically catalyzed 5-iodo-5,6-dihydrouracil ring hydrolysis on the dehalogenation of 5-iodouracil.**
Byung Dong Kim, Sheue Keenen, Judith K. Bodnar, and Eugene G. Sander

6915 **Identification of α-adrenergic receptors in uterine smooth muscle membranes by [^{3}H]dihydroergocryptine binding.**
Lewis T. Williams, Debra Mullikin, and Robert J. Lefkowitz

6924 **Binding of uracil derivatives to hydrophobic peptides and sodium dodecyl sulfate.**
Helen M. Chao, Blondel Hazel, and Simon Black

6929 **Purification and characterization of L-asparaginase with anti-lymphoma activity from *Vibrio succinogenes*.**
John A. Distasio, Robert A. Niederman, David Kafkewitz, and David Goodman

6934 **A study of renaturation of reduced hen egg white lysozyme. Enzymically active intermediates formed during oxidation of the reduced protein.**
A. Seetharama Acharya and Hiroshi Taniuchi

6947 **Activation of calcium transport in skeletal muscle sarcoplasmic reticulum by monovalent cations.**
Munekazu Shigekawa and Leslie J. Pearl

6953 **Chemical cross-linking studies of chloroplast coupling factor 1.**
Barbara A. Baird and Gordon G. Hammes

6963 **Hydrogen ion interactions of horse spleen ferritin and apoferritin.**
Susan T. Silk and Esther Breslow

6974 **Purification and properties of two aromatic aminotransferases in *Bacillus subtilis*.**
Douglas A. Weigent and Eugene W. Nester

6981 **^{31}P NMR studies of the arginine kinase reaction. Equilibrium constants and exchange rates at stoichiometric enzyme concentration.**
B. D. Nageswara Rao, Daniel H. Buttlaire, and Mildred Cohn

6987 **Regulation of folate reductase synthesis in sensitive and methotrexate-resistant Sarcoma 180 cells. *In vitro* translation and characterization of folate reductase mRNA.**
Rodney E. Kellems, Frederick W. Alt, and Robert T. Schimke

6994 **A new oxygenase, 2-nitropropane dioxygenase of *Hansenula mrakii*. Enzymologic and spectrophotometric properties.**
Toshiko Kido, Kenji Soda, Tetsuya Suzuki, and Kozi Asada

7001 **The "γ component" of skeletal troponin. Evidence for its identity with muscle creatine kinase.**
Guy Berson

7004 **Specificity of protein turnover in tomato leaves. Accumulation of proteinase inhibitors, induced with the wound hormone, PIIF.**
Gary Gustafson and Clarence A. Ryan

7011 **Interconvertible forms of *Escherichia coli* dihydrofolate reductase with different affinities for analogs of dihydrofolate.**
Kathryn H. Pattishall, James J. Burchall, and Robert J. Harvey

7021 **Immunochemistry of the subunits of transcarboxylase.**
Melvin Berger and Harland G. Wood

7035 **Radioimmunoassay for neurotensin, a hypothalamic peptide.**
Robert Carraway and Susan E. Leeman

7045 **Characterization of radioimmunoassayable neurotensin in the rat. Its differential distribution in the central nervous system, small intestine, and stomach.**
Robert Carraway and Susan E. Leeman

7053 **Isolation of a tridecapeptide from bovine intestinal tissue and its partial characterization as neurotensin.**
Patrick Kitabgi, Robert Carraway, and Susan E. Leeman

7059 **Reconstitution of biological molecular generators of electric current. Bacteriorhodopsin.**
Lel A. Drachev, Vladimir N. Frolov, Andrey D. Kaulen, Efim A. Liberman, Sergey A. Ostroumov, Valentina G. Plakunova, Alexey Yu. Semenov, and Vladimir P. Skulachev

7066 **Reconstitution of biological molecular generators of electric current. Bacteriochlorophyll and plant chlorophyll complexes.**
Evgeny L. Barsky, Zsolt Dancshazy, Lel A. Drachev, Marina D. Il'ina, Antanas A. Jasaitis, Andrey A. Kondrashin, Vitaly D. Samuilov, and Vladimir P. Skulachev

7072 **Reconstitution of biological molecular generators of electric current. Cytochrome oxidase.**
Lel A. Drachev, Antanas A. Jasaitis, Andrey D. Kaulen, Andrey A. Kondrashin, La Van Chu, Alexey Yu. Semenov, Inna I. Severina, and Vladimir P. Skulachev

7077 **Reconstitution of biological molecular generators of electric current. H^+-ATPase.**
Lel A. Drachev, Antanas A. Jasaitis, Henn Mikelsaar, Inna B. Nemeček, Alexey Yu. Semenov, Elvira G. Semenova, Inna I. Severina, and Vladimir P. Skulachev

7083 **C_{20}-Sphingosine as a determining factor in aggregation of gangliosides.**
Herbert C. Yohe, Dennis E. Roark, and Abraham Rosenberg

7088 **Mode of inhibition of acid proteases by pepstatin.**
Joseph Marciniszyn, Jr., Jean A. Hartsuck, and Jordan Tang

7095 **Mechanism of intramolecular activation of pepsinogen. Evidence for an intermediate δ and the involvement of the active site of pepsin in the intramolecular activation of pepsinogen.**
Joseph Marciniszyn, Jr., Jung San Huang, Jean A. Hartsuck, and Jordan Tang

7103 **Removal of "tightly bound" nucleotides from soluble mitochondrial adenosine triphosphatase (F_1).**
Richard M. Leimgruber and A. E. Senior

7110 **Removal of "tightly bound" nucleotides from phosphorylating submitochondrial particles.**
Richard M. Leimgruber and A. E. Senior

7114 **NMR study of relative oxygen binding to the α and β subunits of human adult hemoglobin.**
Tai-Huang Huang and Alfred G. Redfield

7120 **Temperature dependence of cholesterol binding to cytochrome P-450$_{scc}$ of the rat adrenal. Effect of adrenocorticotropic hormone and cycloheximide.**
Douglas P. Paul, Samuel Gallant, Nanette R. Orme-Johnson, William H. Orme-Johnson, and Alexander C. Brownie

7127 **6-Phosphogluconate dehydrogenase. Purification and kinetics.**
Myron L. Toews, Mohammed I. Kanji, and W. Robert Carper

7132 **Purification and characterization of an endoribonuclease from nucleoplasm and nucleoli of HeLa cells.**
Catherine Ning Kwan

7137 **Intracellular location of triple helix formation of collagen. Enzyme probe studies.**
Anna G. Brownell and Arthur Veis

7144 **Evidence for participation of iron in lipoxygenase reaction from optical and electron spin resonance studies.**
Elfriede K. Pistorius, Bernard Axelrod, and Graham Palmer

7149 **Inhibition of glycolysis in brain by a phospholipid effect on interconversion of fructose phosphates. A possible regulatory control on utilization of glucose 6-phosphate.**
Arun L. Majumder and Frank Eisenberg, Jr.

7157 **Interaction of tetraiodofluorescein with yeast hexokinase.**
Berwin P. Yip and Frederick B. Rudolph

7162 **Equilibrium constants under physiological conditions for the reactions of choline kinase and the hydrolysis of phosphorylcholine to choline and inorganic phosphate.**
Robert W. Guynn

7168 **Exposure of free amino groups in the coupling factor of energized spinach chloroplasts.**
David Oliver and Andre Jagendorf

7176 **Impermeant maleimides. Oriented probes of erythrocyte membrane proteins.**
Richard E. Abbott and David Schachter

7184 **Impermeant maleimides. Identification of an exofacial component of the human erythrocyte hexose transport mechanism.**
Ellen R. Batt, Richard E. Abbott, and David Schachter

7191 **Energy-dependent calcium transport in endoplasmic reticulum of adipocytes.**
David E. Bruns, Jay M. McDonald, and Leonard Jarett

7198 **DNA "melting" proteins. I. Effects of bovine pancreatic ribonuclease binding on the conformation and stability of DNA.**
David E. Jensen and Peter H. von Hippel

7215 **DNA "melting" proteins. II. Effects of bacteriophage T4 gene 32-protein binding on the conformation and stability of nucleic acid structures.**
David E. Jensen, Raymond C. Kelly, and Peter H. von Hippel

7229 **DNA "melting" proteins. III. Fluorescence "mapping" of the nucleic acid binding site of bacteriophage T4 gene 32-protein.**
Raymond C. Kelly and Peter H. von Hippel

7240 **DNA "melting" proteins. IV. Fluorescence measurements of binding parameters for bacteriophage T4 gene 32-protein to mono-, oligo-, and polynucleotides.**
Raymond C. Kelly, David E. Jensen, and Peter H. von Hippel

7251 **Regulation of gene 32 expression during bacteriophage T4 infection of *Escherichia coli*.**
Larry Gold, Patricia Z. O'Farrell, and Marjorie Russel

7263 **Translational, autogenous regulation of gene 32 expression during bacteriophage T4 infection.**
Marjorie Russel, Larry Gold, Hope Morrissett, and Patricia Z. O'Farrell

COMMUNICATIONS

7271 **Restoration of calcium transport in the trypsin-treated (Ca^{2+} + Mg^{2+})-dependent adenosine triphosphatase of sarcoplasmic reticulum exposed to sodium dodecyl sulfate.**
David H. MacLennan, Vijay K. Khanna, and Peter S. Stewart

7275 **Behavior of the Ca^{2+} transport sites linked with the phosphorylation reaction of ATPase purified from the sarcoplasmic reticulum.**
Noriaki Ikemoto

7278 **Selective inhibition of protein synthesis initiation in *Saccharomyces cerevisiae* by low concentrations of cycloheximide.**
Terrance G. Cooper and June Bossinger

December 10, 1976

7281 **Human epidermal transglutaminase. Preparation and properties.**
Hideoki Ogawa and Lowell A. Goldsmith

7289 **Formation of lipid-linked sugar compounds in *Halobacterium salinarium*. Presumed intermediates in glycoprotein synthesis.**
Matthew F. Mescher, Ulla Hansen, and Jack L. Strominger

7295 **Glucocorticoid action on rat thymic lymphocytes. Experiments utilizing adenosine to support cellular metabolism lead to a reassessment of catabolic hormone actions.**
Steven K. Nordeen and Donald A. Young

7304 **Activation of soluble guanylate cyclase from rat lung by incubation or by hydrogen peroxide.**
Arnold A. White, Kathleen M. Crawford, Carol S. Patt, and Pushkaraj J. Lad

7313 **mRNA guanylyltransferase and mRNA (guanine-7-)-methyltransferase from vaccinia virions. Donor and acceptor substrate specificities.**
Scott A. Martin and Bernard Moss

7322 **Control of phosphofructokinase from rat skeletal muscle. Effects of fructose diphosphate, AMP, ATP, and citrate.**
Keith Tornheim and John M. Lowenstein

7329 **Mechanism for irreversible self-deactivation of prostaglandin synthetase.**
Robert W. Egan, John Paxton, and Frederick A. Kuehl, Jr.

7336 **Identification of 17-methyl-18-norandrosta-5,13(17)-dien-3β-ol, the C_{19} fragment formed by adrenal side chain cleavage of a 20-aryl analog of (20*S*)-20-hydroxycholesterol.**
Richard B. Hochberg, Patrick D. McDonald, Laura Ponticorvo, and Seymour Lieberman

7343 **Isolation and amino acid sequence of a neurotoxic phospholipase A from the venom of the Australian tiger snake *Notechis scutatus scutatus*.**
James Halpert and David Eaker

7348 **Regulation of *de novo* purine biosynthesis in human lymphoblasts. Coordinate control of proximal (rate-determining) steps and the inosinic acid branch point.**
Michael S. Hershfield and J. Edwin Seegmiller

7355 **The ovalbumin gene. *In vitro* enzymatic synthesis and characterization.**
John J. Monahan, Larry A. McReynolds, and Bert W. O'Malley

7363 **H5 histone and DNA-relaxing enzyme of chicken erythrocytes. Interaction with superhelical DNA.**
Minou Bina-Stein, Tikva Vogel, Dinah S. Singer, and Maxine F. Singer

7367 **Catalytic mechanism of *p*-hydroxybenzoate hydroxylase with *p*-mercaptobenzoate as substrate.**
Barrie Entsch, David P. Ballou, Mazhar Husain, and Vincent Massey

7380 **Chromatin receptors for thyroid hormones. Interactions of the solubilized proteins with DNA.**
Kathryn M. MacLeod and John D. Baxter

7388 **Solubilized nuclear "receptors" for thyroid hormones. Physical characteristics and binding properties, evidence for multiple forms.**
Keith R. Latham, Janet C. Ring, and John D. Baxter

7398 **Gonadotropin receptors in plasma membranes of bovine corpus luteum. I. Effect of phospholipases on the binding of ^{125}I-choriogonadotropin by membrane-associated and solubilized receptors.**
Salman Azhar and K. M. Jayaram Menon

7405 **Gonadotropin receptors in plasma membranes of bovine corpus luteum. II. Role of membrane phospholipids.**
Salman Azhar, Amiya K. Hajra, and K. M. Jayaram Menon

7413 **Photoactivated cross-linking of proteins within the erythrocyte membrane core.**
Ross B. Mikkelsen and Donald F. H. Wallach

7417 **Light-induced exchange of nucleotides into coupling factor 1 in spinach chloroplast thylakoids.**
Ronald P. Magnusson and Richard E. McCarty

7423 **Angiotensin II binding to mammalian brain membranes.**
James P. Bennett, Jr. and Solomon H. Snyder

7431 **Spin-labeled stearates as probes for microenvironment of murine thymocyte adenylate cyclase-cyclic adenosine 3′:5′-monophosphate system.**
Terry V. Zenser, Vance J. Petrella, and Floyd Hughes

7437 **Ultracentrifugal behavior of apolipoprotein A-I of rhesus monkey (*Macaca mulatta*).**
Donald L. Barbeau and Angelo M. Scanu

7442 **Evaluation of the H^+/site ratio of mitochondrial electron transport from rate measurements.**
Baltazar Reynafarje, Martin D. Brand, and Albert L. Lehninger

7452 **Nuclear magnetic resonance studies of sperm whale myoglobin specifically enriched with ^{13}C in the methionine methyl groups.**
Warren C. Jones, Jr., T. Michael Rothgeb, and Frank R. N. Gurd

7461 **Isolation of rat liver albumin messenger RNA.**
John M. Taylor and Tenny P. H. Tse

7468 **Investigation of microsomal oxygenases of biosynthetic processes. Stearyl-CoA desaturase of adipose tissue and liver.**
Harold E. Seifried and James L. Gaylor

7474 **Polymerization of *Acanthamoeba* actin. Kinetics, thermodynamics, and co-polymerization with muscle actin.**
David J. Gordon, Yeu-Zu Yang, and Edward D. Korn

7480 **Stimulation of phosphorylase kinase autophosphorylation by peptide analogs of phosphorylase.**
Gerald M. Carlson and Donald J. Graves

7487 **On the nature of the three intermediate species formed after reaction of reduced cytochrome oxidase with oxygen.**
Yutaka Orii and Tsoo E. King

7494 **Effect of organic phosphates on methemoglobin reduction by ascorbic acid.**
Akio Tomoda, Shigeru Matsukawa, Masazumi Takeshita, and Yoshimasa Yoneyama

7499 **Calorimetric studies of the interaction of myosin with ADP.**
Takao Kodama and Roger C. Woledge

7504 **Spectrophotometric study of spontaneous disproportionation of superoxide anion radical and sensitive direct assay for superoxide dismutase.**
Stefan Marklund

7508 **Platelet cyclic 3′:5′-nucleotide phosphodiesterase released by thrombin and calcium ionophore.**
Hiroyoshi Hidaka and Tomiko Asano

7517 **Gangliosides of human kidney.**
Heikki Rauvala

7521 **pH-dependent effects of $Cr(NH_3)_2$ ATP on kinetics of yeast hexokinase PII. Relationship to the slow transition mechanism.**
Bruce A. Peters and Kenneth E. Neet

7526 **Mechanism of self-phosphorylation of adenosine 3′:5′-monophosphate-dependent protein kinase from bovine cardiac muscle.**
Rafael Rangel-Aldao and Ora Mendelsohn Rosen

7530 **Catalytic mechanisms of glutamine synthetase enzymes. Studies with analogs of possible intermediates and transition states.**
Frederick C. Wedler and Bradley R. Horn

7539 **Subcellular distribution of a mammalian hepatic binding protein specific for asialoglycoproteins.**
William E. Pricer, Jr. and Gilbert Ashwell

7545 **Adrenodoxin reductase·adrenodoxin complex. Catalytic and thermodynamic properties.**
J. David Lambeth, Darrell R. McCaslin, and Henry Kamin

7551 **Effect of Ca^{2+} binding on troponin C. Changes in spin label mobility, extrinsic fluorescence, and sulfhydryl reactivity.**
James D. Potter, John C. Seidel, Paul Leavis, Sherwin S. Lehrer, and John Gergely

7557 **Hemoglobin Providence. A human hemoglobin variant occurring in two forms *in vivo*.**
Winston F. Moo-Penn, Danny L. Jue, Katherine C. Bechtel, Mary H. Johnson, Robert M. Schmidt, Paul R. McCurdy, Jack Fox, Joseph Bonaventura, Bolling Sullivan, and Celia Bonaventura

7563 **Hemoglobin Providence. Functional consequences of two alterations of the 2,3-diphosphoglycerate binding site at position β82.**
Joseph Bonaventura, Celia Bonaventura, Bolling Sullivan, Giulia Ferruzzi, Paul R. McCurdy, Jack Fox, and Winston F. Moo-Penn

7572 **Agonist-specific refractoriness induced by isoproterenol. Studies with mutant cells.**
Michael Shear, Paul A. Insel, Kenneth L. Melmon, and Philip Coffino

7577 **Disappearance of specific proteins from the membranes of colicin-treated cells.**
Janice E. Knepper and Joan E. Lusk

7581 **Isolation and properties of β-galactoside binding lectins of calf heart and lung.**
Adrian de Waard, Scot Hickman, and Stuart Kornfeld.

7588 **Unsaturated fatty acid biosynthesis in *Tetrahymena*. Evidence for two pathways.**
Mary J. Koroly and Robert L. Conner

7593 **Post-proline cleaving enzyme. Purification of this endopeptidase by affinity chromatography.**
Masao Koida and Roderich Walter

7600 **Studies on a nonpolysomal ribonucleoprotein coding for myosin heavy chains from chick embryonic muscles.**
Jnanankur Bag and Satyapriya Sarkar

7610 **Lipolytic action of cholera toxin on fat cells. Re-examination of the concept implicating G_{M1} ganglioside as the native membrane receptor.**
Julian N. Kanfer, Thomas P. Carter, and Howard M. Katzen

7620 **Hydrophobic interaction of human, mouse, and rabbit interferons with immobilized hydrocarbons.**
Mary W. Davey, Eugene Sulkowski, and William A. Carter

7626 **Biosynthesis of glycosphingolipids in cultured mouse neuroblastoma cells. Precursor-product relationships among sialoglycosphingolipids.**
Stephen F. Kemp and Allen C. Stoolmiller

7632 **Subunit dissociation in fish hemoglobins.**
Stuart J. Edelstein, Bruce McEwen, and Quentin H. Gibson

7638 **Reactivity of cyanate with valine-1 (α) of hemoglobin. A probe of conformational change and anion binding.**
Alan M. Nigen, Barry D. Bass, and James M. Manning

7644 **Hemocyanin of the horseshoe crab, *Limulus polyphemus*. Structural differentiation of the isolated components.**
Bolling Sullivan, Joseph Bonaventura, Celia Bonaventura, and Gerald Godette

7649 **Biosynthesis of ribothymidine in the transfer RNA of *Streptococcus faecalis* and *Bacillus subtilis*. A methylation of RNA involving 5,10-methylenetetrahydrofolate.**
Ann S. Delk, Joseph M. Romeo, David P. Nagle, Jr., and Jesse C. Rabinowitz

7657 **Aggregation of deoxyhemoglobin S at low concentrations.**
Danek Elbaum, Ronald L. Nagel, and Theodore T. Herskovits

7661 **Carbon 13 NMR study of nonenzymatic reactions of pyridoxal 5′-phosphate with selected amino acids and of related reactions.**
Don K. Dalling, David M. Grant, W. James Horton, and Richard D. Sagers

7669 **A new endoribonuclease from *Escherichia coli*. Ribonuclease N.**
Tapan K. Misra, Suzanne Rhee, and David Apirion

7675 **Purification and characterization of initiation factor IF-E2 from rabbit reticulocytes.**
Rob Benne, Catherine Wong, Marianne Luedi, and John W. B. Hershey

7682 **Purification and characterization of squid brain myosin.**
Yew Phew See and J. Metuzals

7690 **A nonelectrogenic H^+ pump in plasma membranes of hog stomach.**
George Sachs, Hsuan Hung Chang, Edd Rabon, Robert Schackman, Miguel Lewin, and Gaetano Saccomani

7699 **Isolation and characterization of major intrinsic microsomal membrane proteins.**
Gary R. Blackburn and Charles B. Kasper

7709 **Nucleotide sequence and *in vitro* processing of a precursor molecule to *Escherichia coli* 4.5 S RNA.**
Alfred L. M. Bothwell, Richard L. Garber, and Sidney Altman

COMMUNICATIONS

7717 **Rearrangement of an abortive aminoacyl-tRNA synthetase complex with aminoacyl-tRNA could be rate-determining for catalytic charging.**
Eggehard Holler

7720 **Binding of inositol hexaphosphate to deoxyhemoglobin.**
Rohinton Edalji, Ruth E. Benesch, and Reinhold Benesch

7722 **Negligible amount of copper in hepatic L-tryptophan 2,3-dioxygenase.**
Ryu Makino and Yuzuru Ishimura

7726 **Spectral evidence for a flavin adduct in a monoalkylated derivative of pig heart lipoamide dehydrogenase.**
Colin Thorpe and Charles H. Williams, Jr.

7729 **Gonadotropin-induced loss of hormone receptors and desensitization of adenylate cyclase in the ovary.**
Marco Conti, James P. Harwood, Aaron J. W. Hsueh, Maria L. Dufau, and Kevin J. Catt

December 25, 1976

7733 **Assembly of the sarcoplasmic reticulum. Biosynthesis of calsequestrin in rat skeletal muscle cell cultures.**
Elzbieta Zubrzycka and David H. MacLennan

7739 **Lipid-protein interactions in *Escherichia coli*. Membrane associated f1 bacteriophage coat protein and phospholipid metabolism.**
Brian K. Chamberlain and Robert E. Webster

7746 **Purification and properties of an endonuclease from nuclei of uninfected and polyoma-infected 3T3 cells.**
Marilyn S. McGuire, Melvin S. Center, and Richard A. Consigli

7753 **Isolation, characterization, and radioimmunoassay of murine egasyn, a protein stabilizing glucuronidase membrane binding.**
Aldons J. Lusis, Shiro Tomino, and Kenneth Paigen

7761 **Isolation and characterization of two mouse L cell lines resistant to the toxic lectin ricin.**
Charlene Gottlieb and Stuart Kornfeld

7769 **Appearance of magnesium guanylate cyclase activity in rat liver with sodium azide activation.**
Hiroshi Kimura, Chandra K. Mittal, and Ferid Murad

7774 **Anthranilate synthase-amidotransferase (combined). A novel form of anthranilate synthase from *Euglena gracilis*.**
Charles N. Hankins and Stanley E. Mills

7779 **Cross-linking of initiation factor IF2 to proteins L7/L12 in 70 S ribosomes of *Escherichia coli*.**
Ronald L. Heimark, John W. B. Hershey, and Robert R. Traut

7785 **Role of glucagon on the control of hepatic protein synthesis and degradation in the rat *in vivo*.**
Matilde S. Ayuso-Parrilla, Angeles Martín-Requero, Julio Pérez-Díaz, and Roberto Parrilla

7791 **Lipoprotein lipase from bovine milk. Isolation procedure, chemical characterization, and molecular weight analysis.**
Per-Henrik Iverius and Ann-Margret Östlund-Lindqvist

7796 **Synthesis of bound adenosine triphosphate from bound adenosine diphosphate by the purified coupling factor 1 of chloroplasts. Evidence for direct involvement of the coupling factor in this "adenylate kinase-like" reaction.**
Evangelos N. Moudrianakis and Marjorie A. Tiefert

7802 **Participation of a trisaccharide-lipid in glycosylation of oviduct membrane glycoproteins.**
Winston W. Chen and William J. Lennarz

7810 **Purification and properties of squid mantle adenylate kinase. Role of NADH in control of the enzyme.**
Kenneth B. Storey

7816 **Transformation of arachidonic acid and homo-γ-linolenic acid by rabbit polymorphonuclear leukocytes. Monohydroxy acids from novel lipoxygenases.**
Pierre Borgeat, Mats Hamberg, and Bengt Samuelsson

7821 **Latency of inosine-5′-diphosphatase in microsomes isolated from rat liver.**
James S. Little, Dinah R. Thiers, and Christopher C. Widnell

7826 **Dependence of renal (Na^+ + K^+)-adenosine triphosphatase activity on thyroid status.**
Chu-Shek Lo, Todd R. August, Uri A. Liberman, and Isidore S. Edelman

7834 **Effect of triiodothyronine on the synthesis and degradation of renal cortical (Na^+ + K^+)-adenosine triphosphatase.**
Chu-Shek Lo and Isidore S. Edelman

7841 **Hormonal control of [^{14}C]glucose synthesis from [*U*-^{14}C]-dihydroxyacetone and glycerol in isolated rat hepatocytes.**
Simon J. Pilkis, Jean Paul Riou, and Thomas H. Claus

7853 **Purification and properties of a specific proteolytic enzyme present in spores of *Bacillus megaterium*.**
Peter Setlow

7863 **Comparison of the size and physical properties of γ-glutamyltranspeptidase purified from rat kidney following solubilization with papain or with Triton X-100.**
Rebecca P. Hughey and Norman P. Curthoys

7871 **Aggregation of deoxyhemoglobin subunits.**
Patricia McGovern, Paul Reisberg, and John S. Olson

7880 **Biosynthesis of bacterial glycogen. Characterization of the subunit structure of *Escherichia coli* B glucose-1-phosphate adenylyltransferase (EC 2.7.7.27).**
Thomas H. Haugen, Armana Ishaque, and Jack Preiss

7886 **Biosynthesis of bacterial glycogen. Activator-induced oligomerization of a mutant *Escherichia coli* ADP-glucose synthase.**
Curtis A. Carlson, Thomas F. Parsons, and Jack Preiss

7893 **Nuclear location of mammalian DNA polymerase activities.**
Douglas N. Foster and Theodore Gurney, Jr.

7899 **Endogenous protein kinase in outer plasma membrane of cultured 3T3 cells. Nature of the membrane-bound substrate and effect of cell density, serum addition, and oncogenic transformation.**
Andrea M. Mastro and Enrique Rozengurt

7907 **Electronic state of heme in cytochrome oxidase. I. Magnetic circular dichroism of the isolated enzyme and its derivatives.**
Gerald T. Babcock, Larry E. Vickery, and Graham Palmer

7920 **Steady state and exchange kinetics of pyruvate, phosphate dikinase from *Propionibacterium shermanii*.**
Yoram Milner and Harland G. Wood

7929 **Properties of electrophoretically homogeneous phenobarbital-inducible and β-naphthoflavone-inducible forms of liver microsomal cytochrome P-450.**
David A. Haugen and Minor J. Coon

7940 **Isolation of eukaryotic ribosomal proteins. Purification and characterization of the 60 S ribosomal subunit proteins L4, L5, L7, L9, L11, L12, L13, L21, L22, L23, L26, L27, L30, L33, L35′, L37, and L39.**
Kunio Tsurugi, Ekkehard Collatz, Ira G. Wool, and Alan Lin

7947 **Formation of 5,5-dimethyl-Δ^2-thiazoline-4-carboxylic acid during cleavage of penicillin G by D-alanine carboxypeptidase from *Bacillus stearothermophilus*.**
Sven Hammarström and Jack L. Strominger

COMMUNICATIONS

7950 **Solubilization of adenylate cyclase from normal and Rous sarcoma-transformed chicken embryo fibroblasts.**
Susan Gidwitz, Michael J. Weber, and Dan R. Storm

7952 **Stopped flow kinetics of pyrene transfer between human high density lipoproteins.**
Steven C. Charlton, John S. Olson, Kong-Yi Hong, Henry J. Pownall, Daniel D. Louie, and Louis C. Smith

Author Index 7957
Subject Index 7965
Volume Contents iii

CUMULATIVE AUTHOR INDEX

Numbers 1 through 24

A

Aaronson, S. A., 4859
Abbott, R. E., 7176, 7184
Abeles, R. H., 3734, 5817
Abell, C. W., 4646
Abita, J.-P., 5310
Abou-Issa, H., 3326
Abramovitz, A. S., 5321, 5327
Acharya, A. S., 6934
Ackerman, R. S., 3436
Adams, R. J., 6653
Adelman, T. G., 3027
Adman, E. T., 3801
Agarawal, K. L., 565, 599, 601, 624, 667
Aggerbeck, L. P., 3823, 5429
Agranoff, B. W., 5149
Ahmed, A. I., 3033
Akino, T., 4448
Albers, R. W., 2186
Albersheim, P., 5904
Alberts, B., 2124, 2133, 2142
Alberts, P., 1543
Alden, R. A., 1097
Alford, B. L., 4823
Allen, K. G. D., 2353
Allen, R. E., 6860
Allerhand, A., 5187, 6522
Allison, D. P., 2174
Alt, F. W., 3063, 6987
Altman, S., 7709
Amann, R. P., 787
Ambani, L. M., 6616
Amir, S. M., 4693
Anderson, H. J., 1221
Anderson, W. B., 2344
Anderson, W. F., 3425
Anderson, W. L., 3147
Anfinsen, C. B., 1659
Ansah-Yiadom, R., 3594
Ansari, A. A., 6798
Ansevin, A. T., 1471
Aoki, N., 5956
Apirion, D., 7669
Appella, E., 4214, 6798
Appleby, C. A., 6090
Araki, T., 4254
Arima, K., 2808
Arınç, E., 3213
Arion, W. J., 4901, 6784
Armbruster, D. A., 320
Armitage, I. M., 1207
Armstrong, A., 2525
Arnason, B. G. W., 459
Arnone, A., 5875
Arslanian, M. J., 3194
Arzadon, L., 3693
Asada, K., 6994
Asakura, T., 1418, 2664, 6838
Asano, T., 7508
Ashour, A-L. E., 2983
Ashwell, G., 1296, 5292, 7539
Assad, R., 4770
Assimacopoulos, F. D., 5200, 5209
Atassi, M. Z., 1653, 4616
Atger, M., 4758
Atha, D. H., 5537
Atkinson, P. H., 4673
Atwood, K. C., IV, 292
Audhya, T. K., 3763
Augenlicht, L. H., 2592
August, J. T., 559, 3176, 3185
August, T. R., 7826
Aull, J. L., 1303
Aurbach, G. D., 1232, 1239
Aust, A. E., 124
Austen, B. M., 5835
Austin, S. M., 5027
Avruch, J., 1505, 1511
Awad, W. M., Jr., 204
Awasthi, Y. C., 2271
Axelrod, B., 7144
Ayuso-Parrilla, M. S., 7785
Azhar, S., 7398, 7405

B

Babalola, A. O. G., 2993
Babcock, D. F., 3881
Babcock, G. T., 7907
Babior, B. M., 3734
Bacher, A., 3623
Badwey, J. A., 5600
Bag, J., 7600
Baglioni, C., 5657
Bagshaw, C. R., 1975
Baird, B. A., 6953
Bajaj, S. P., 5233, 6294
Baker, F. C., 2241
Baker, H. J., 3105
Baldwin, C., 4930
Baliga, B. S., 2945
Ballard, F. J., 3586
Ballas, L. M., 4901, 6784
Ballou, C. E., 174
Ballou, D. P., 2550, 7367
Baltimore, D., 2399
Bambara, R. A., 4090
Banerjee, D., 3887
Banerjee, S. P., 5680
Banner, R. L., 4922
Bárány, M., 2584
Barbacid, M., 4859
Barbeau, D. L., 7437
Barber, R., 3500
Barchi, R. L., 193
Barnes, E. M., Jr., 4823, 5614
Barondes, S. H., 858
Barsky, E. L., 7066
Bartfai, T., 1543
Bartle, E., 4468
Bartok, K., 530
Bartova, A., 5002
Bass, B. D., 7638
Basu, S. P., 3191
Batenburg, J. J., 1364
Batt, E. R., 7184
Battula, N., 982
Batzri, S., 6030
Baulieu, E.-E., 4843
Baxter, J. D., 334, 7380, 7388
Baxter, L. A., 397, 3158
Baynes, J. W., 6016
Bazer, F. W., 4680
Beacham, L. M., III, 4055
Beattie, D. S., 108
Bechtel, K. C., 7557
Becker, F. F., 5366
Becker, J. E., 3014
Becker, J. M., 5300
Beeler, T., 5267
Beers, W. H., 5694
Beetlestone, J. G., 2993
Beinert, H., 3706
Belaich, A., 6735
Belaich, J-P., 6735
Belfrage, P., 813
Bell, G., 1464
Bell, J. E., 3003
Bell, J. J., 1745
Bell, R. M., 1488, 4537, 5738
Bender, M. L., 498
Benesch, R., 465, 7720
Benesch, R. E., 465, 7720
Benisek, W. F., 1553
Benjamin, D. C., 4603, 4609
Benne, R., 6471, 7675
Bennett, J. P., Jr., 7423
Bentle, L. A., 2916, 2922
Ben-Yoseph, Y., 4867
Beppu, T., 2808
Berg, A., 2831
Bergamini, M. V. W., 4736
Berger, A., 1333
Berger, M., 7021
Berger, S. L., 4891
Berman, M., 2186
Bermek, E., 6544
Berry, K. W., 5551
Berson, G., 7001
Bersot, T. P., 2395, 3838
Besmer, P., 565, 634, 667
Bessman, M. J., 2475, 2480
Betz, G., 2839
Beuhler, R. J., 2405
Beuzard, Y. G., 4346
Beyer, T. A., 3003
Bhalla, V. K., 4947
Bhattacharyya, P., 5614
Bhoyroo, V. D., 6400, 6409, 6420
Bianco, A. R., 1877, 6479
Bielski, B. H. J., 3841
Bigelis, R., 3545
Bina-Stein, M., 7363
Birkedal-Hansen, H., 3162
Birktoft, J. J., 1097
Birmingham, M. K., 5002
Birnbaumer, L., 2653, 5429
Bissel, M. J., 4588
Bissell, D. M., 4421
Björkhem, I., 3495, 5259
Black, C. C., 5824
Black, S., 6924
Blackburn, G. R., 7699
Blair, J. B., 3756
Blass, J. P., 4127
Bleile, D. M., 6304
Bloch, K., 1406
Bloch, K. E., 5155
Bloch, R., 5929
Blumberg, W. E., 6090
Blume, A. J., 3399
Blumenthal, K. M., 6025
Blumenthal, T., 2740, 2749
Blumer, J. L., 3436, 3442
Bock, P. E., 5630, 5637, 5644
Bock, R. M., 2440
Bockaert, J., 2653, 5429
Bodley, J. W., 930, 1795
Bodnar, J. K., 6909
Boettcher, B., 1853
Bogenhagen, D., 2938
Bohnett, S. A., 5607
Boime, I., 820
Boland, R., 5414
Bolander, F. F., Jr., 2703
Bonaventura, C., 1871, 7557, 7563, 7644
Bonaventura, J., 1871, 7557, 7563, 7644
Bonting, S. L., 4700
Boosman, A., 1847
Boquet, P., 5770
Boreisha, I. G., 3693
Borgeat, P., 7816
Bornet, E. P., 3140
Bose, K. K., 137
Bose, S., 1659
Bossinger, J., 7278
Botbol, V., 2891
Bothwell, A. L. M., 7709
Bouton, M.-M., 4843
Bowman, B. J., 3948
Bowman, C. M., 3117
Boyer, P. D., 4165, 5558, 5711
Bradley, M. O., 3521
Bradshaw, R. A., 1516, 1524, 3921
Brady, R. O., 153
Brand, M. D., 968, 5670, 7442
Brandt, H., 2363, 3862
Bransome, E. D., Jr., 1632
Braselton, W. E., Jr., 1632
Braun, P. E., 4729
Brautigan, D. L., 1104
Braverman, R., 4891
Breckenridge, B. M., 4744
Brekke, C. J., 866
Bremer, J., 277
Brent, R. L., 1789
Breslow, E., 6963
Brew, K., 204, 3645, 3653
Briggs, D. W., 4996
Bright, H. J., 6150
Brisson, N., 1529
Brizard, C. P., 4346
Brockman, H. L., 378, 384
Broderius, M., 6886
Brodie, A. F., 2493
Brophy, E. J., 3199, 3206
Brostrom, C. O., 4744
Brostrom, M. A., 4744
Brot, N., 5516
Brown, A., 1785
Brown, E. M., 1232, 1239
Brown, G. M., 5087
Brown, H. M., 907
Brown, J. L., 1009
Brown, J. P., 3057
Brown, M., 3511
Brown, M. S., 2395, 3277, 3838
Brown, S., 2740, 2749
Brownell, A. G., 7137
Brownie, A. C., 7120
Brucker, R. F., 6161
Brumley, F. T., 5200
Brunori, M., 1871
Bruns, D. E., 5345, 7191
Brunschede, G. Y., 3277
Brunton, L. L., 3037
Bryan, J., 5078
Bryant, R. G., 403
Büchi, H., 565, 624, 667
Buchanan, B. B., 6456
Bucholtz, M. L., 424, 431
Buhler, J.-M., 1712
Buller, R. E., 5166, 5178
Burchall, J. J., 7011
Burger, M. M., 5929
Burleigh, B. D., 308
Burt, C. T., 2584
Busch, H., 5901
Butcher, F. R., 2987, 3014
Butler, L. G., 2611

Buttlaire, D. H., 4159, 6981

C

Cabbat, F. S., 2182
Cabib, E., 3367
Cabrer, B., 1718
Cacheleux, J., 4346
Cagan, R. H., 88
Cagen, L. M., 6550
Calabro, M. A., 2113
Calvanico, N. J., 1969
Camel, M., 820
Cameron, J. D., 730
Camier, M., 3965
Campbell, J. L., 1561
Campbell, J. W., 781
Canellakis, Z. N., 1781, 3520, 4436
Cantor, C. R., 734, 741, 747, 754, 769
Caplan, A. I., 3511
Capra, J. D., 2911
Carbon, J., 922
Cardemil, L., 2967
Carlson, C. A., 7886
Carlson, G. M., 7480
Carlson, R. W., 4139
Carlström, K., 2831
Carmichael, G. G., 2744
Caron, M., 1529
Caron, M. G., 2374, 4686
Carpenter, F. H., 53, 1618
Carpenter, M. P., 4155
Carper, W. R., 2255, 2258, 7127
Carraway, C. A. C., 6173
Carraway, K. L., 6173
Carraway, R., 7035, 7045, 7053
Carrella, M., 3831
Carrette, J., 4322
Carta-Sorcini, M., 6798
Carter, T. P., 7610
Carter, W. A., 5381, 7620
Cartwright, G. E., 1015
Caruthers, M. H., 565, 571, 587, 599, 609, 624, 658, 667
Carvalho, M. G. C., 1413, 3629
Cascieri, M., 787
Cashion, P. J., 565, 609, 667
Cashmore, A. R., 2848
Castellino, F. J., 3906, 3913, 5233, 6294
Castro, T., 5522
Catalá, A., 5095
Catt, K. J., 7729
Catterall, W. A., 5528
Cavalieri, R. R., 6489
Ceccarini, C., 4673
Cederbaum, A. I., 5366
Center, M. S., 7746
Chaiken, I. M., 2044
Chalkley, R., 4155
Cham, B. E., 6367
Chamberlain, B. K., 7739
Chambon, P., 4843
Chan, P. C., 3841
Chan, S. K., 471
Chandrakasan, G., 6062
Chang, G.-G., 6574
Chang, H. H., 7690
Chang, J. Y., 695, 705
Chang, N., 5310
Chang, P. K., 6555
Chao, H. M., 2330, 6924
Charlton, S. C., 7952
Chatterjee, B., 6379
Chatterjee, M., 2945
Chee, P. Y., 1029
Chen, C.-H., 968
Chen, I. S., 4055
Chen, J.-S., 3921
Chen, L. L., 1828, 1835
Chen, M.-J., 536
Chen, M. S., 4833, 4839, 6555
Chen, S.-H., 4179
Chen, W. W., 7802
Cheng, L., 3306
Cheng, Y.-C., 2600, 2605
Cherrington, A. D., 5209
Chesnut, R. W., 6173
Chetirkin, P., 4001
Cheung, W. Y., 4193, 5726
Chevallier, J., 4322
Chiang, R., 6340
Chiang, T. M., 6347
Chiang, Y.-L., 29
Chien, J. C. W., 1670
Chilson, O. P., 1847
Chin, C.-C., 3700
Chin, R.-C., 6730
Chiu, J.-F., 1471
Chlebowski, J. F., 1202, 1207
Chou, C.-H. J., 2671
Chou, F. C.-H., 2671
Christen, P., 4220
Christophe, J. P., 4629, 4640
Chu, L. L. H., 6711
Chu, L. V., 7072
Churchich, J. E., 5267
Cimbala, M. A., 3756
Cinti, D. L., 1571
Clark, C. C., 1789
Clark, J. H., 516
Clark, R. B., 4239
Clarke, S., 950, 1354
Claus, T. H., 7841
Claycomb, W. C., 6082
Clayton, D. A., 2938
Clement, J. R., 2077
Cobb, C. M., 3162
Coburn, S. P., 1646
Coffee, C. J., 1603, 4751, 6315
Coffey, J. W., 5280
Coffino, P., 7572
Cohen, B. I., 2709, 6308
Cohen, G., 2182
Cohen, H. J., 4273
Cohen, J. S., 2644, 2648
Cohen, P., 2536, 3965
Cohen, P. P., 6161
Cohen, S. G., 4722
Cohlberg, J. A., 209, 2540
Cohn, D. V., 6711
Cohn, M., 2777, 6981
Coleman, J. E., 1202, 1207
Coleman, R., 4537
Collatz, E., 1808, 4666, 7940
Condie, L. W., 4996
Conlon, T. P., 4629, 4635, 4640
Conner, R. L., 7588
Conney, A. H., 4882
Conrad, H. E., 6210
Conrad, M. J., 253
Conroy, J. M., 4828
Consigli, R. A., 7746
Conti, M., 7729
Contreras, R., 5124
Cook, P. F., 2023
Coon, M. J., 1817, 7929
Cooper, A. J. L., 1088, 6674
Cooper, H. L., 4891
Cooper, T. G., 7278
Corbett, V. A., 6724
Corbin, J. D., 5209
Corley, L., 1659
Costa, M., 3313
Coulson, R., 4958
Counsell, R. E., 5820
Courvalin, J.-C., 4843
Cox, G. S., 1723
Cozzarelli, N. R., 1311
Craine, J. E., 241
Craven, P. A., 4651
Crawford, K. M., 7304
Creighton, D. J., 61, 69
Crites, S. K., 2015
Cromartie, T. H., 329
Cross, D. G., 1785
Cross, J., 2637
Crumm, S. E., 2735
Cryns, D. F., 4389
Cuatrecasas, P., 5680
Cunningham, M., 4528
Cupp, L. E., 5516
Curd, J. G., 1283, 1290, 6426
Curthoys, N. P., 7863
Curtis, S. J., 2462
Czech, M. P., 1164, 2905

D

Daemen, F. J. M., 4700
d'Albis, A., 2825
Dale, G. L., 1057
Dalling, D. K., 7661
Daly, J. W., 1219
Dancey, G. F., 5911, 5921
Dancshazy, Z., 7066
Danielsson, H., 3495
Danner, D. J., 2539
Dasgupta, A., 6379
Davenport, G. R., 1197
Davey, M. W., 5381, 7620
Davidson, B., 2525
Davies, P., 6562
Davis, C. W., 1759
Davis, E. J., 277
Davis, J. N., 3447
Davis, R. H., 3948
Dawson, G., 5852
Dean, R. T., 3927
Dearborn, D. G., 2976
De Blas, A., 6335
de Crombrugghe, B., 2520
DeFrancesco, L., 4588
DeHaan, R. L., 2539
de Haas, G. H., 3128
Delaney, R., 3269
Delange, R. J., 695, 701, 705
Delius, H., 2142
Delk, A. S., 7649
DeLuca, H. F., 24, 397, 1020, 1025, 3158 3933
Delwiche, C. V., 6638
de Meis, L., 1413, 2055, 3629, 6355
De Meyts, P., 1877, 2761, 6479, 6844
DeMoss, J. A., 2207
Dence, J. B., 3700
Denhardt, D. T., 530
Denk, H., 1571
DeRubertis, F. R., 4651
de Souza, D. G., 3629
Dessen, P., 3965
Deutscher, M. P., 6646
de Waal, D. J. A., 2339
de Waard, A., 7581
DeYoung, A., 6692
Dickerson, R. E., 2197, 4033
Dietrich, C. P., 1154
Dietschy, J. M., 3831
Dimond, R. L., 2680
Dise, C. A., 4162
Distasio, J. A., 6929
Dixon, D. A., 5992
Dixon, G. H., 1446, 1455
Donato, H., Jr., 1303
Doniger, J., 4579
Donnelly, T. E., Jr., 1759
Dorfman, L. M., 2077
Doughty, C. C., 2696
Doyle, D., 872, 4355
Drachev, L. A., 7059, 7066, 7072, 7077
Drapeau, G. R., 3875
Drickamer, L. K., 5115
Dube, S., 4817
Dufau, M. L., 7729
Dugas, H., 1529
Dunaway, G. A., 2323
Duncan, G. S., 6757
Dunford, H. B., 6036, 6043
Dunlap, R. B., 1303
Dunn, J. J., 3807
Dunn, P. E., 4979
Dvorak, D. J., 6730

E

Eagle, H., 5112
Eaker, D., 7343
Eastlake, A., 6426, 6431
Ebel, R. E., 4010
Eckfeldt, J., 236
Eckstein, F., 1398
Edalji, R., 7720
Edelman, G. M., 4622
Edelman, I. S., 7826, 7834
Edelstein, S. J., 7632
Edmondson, D. E., 5386
Edwards, D. P., 1632
Egami, F., 3637
Egan, R. W., 4442, 7329
Ehret, A., 4722
Eichler, D. C., 4085
Eichner, R. D., 2316
Eipper, B. A., 4115, 4121
Eisenberg, E., 4778
Eisenberg, F., Jr., 7149
Elbaum, D., 7657
Elder, J. H., 5054
Elion, G. B., 4055, 6757
Elliott, S. D., 1955
Elsas, L. J., 2539
Emken, E. A., 6001
Endo, R., 2070
Engel, R., 6717
Ennis, H. L., 2854
Enns, L., 6352
Enoch, H. G., 5095
Ensinger, M. J., 5283
Entman, M. L., 3140
Entsch, B., 2550, 7367
Epstein, W., 2462
Esmon, C. T., 2770, 3052, 6238
Estabrook, R. W., 4010
Eto, I., 6505
Evans, F. E., 6791
Evans, G. A., 2842
Evans, J. A., 6646
Evers, J. L., 6495
Exton, J. H., 5200, 5209
Eytan, E., 5161
Eytan, G. D., 6831

F

Faber, L. E., 5607
Fain, J. N., 2987
Fales, H. M., 6550
Fall, R. R., 2063
Fan, D. P., 1889, 6154
Farley, J. R., 4389
Fedak, S. A., 1239
Fee, J. A., 5472, 6157
Feeney, R. E., 2290, 3033
Feigelson, P., 3594
Feldman, L., 4247
Feldman, M., 2087
Felix, A. M., 503
Fellows, R. E., 2703
Feman, E. R., 5657
Fenton, W. A., 6616
Ferguson-Miller, S., 1104
Fernstedt, Y., 4986
Ferrendelli, J. A., 6053
Ferruzzi, G., 7563
Feucht, B. U., 883, 1531, 5522
Fiedler-Nagy, C., 5280
Files, J. G., 3386
Fillingame, R. H., 6630
Finegan, J.-A. M., 6894
Finn, F. M., 3576
First, N. L., 3881
Fish, W. W., 3856
Fisher, H. F., 1785
Fishman, P. H., 4490
Flanagan, S. D., 858
Flavin, M., 182
Fleischman, R. A., 1561
Fletterick, R. J., 6142
Floss, H. G., 5478
Fogle, D. D., 6173
Fonda, M. L., 229
Forster, R. E., 4398
Foster, C. J., 3399
Foster, D. N., 7893
Foster, D. W., 6007
Foster, J. L., 3756
Fox, I. H., 5839
Fox, J., 7557, 7563
Frandsen, E. K., 4640
Frank, J. J., 5745, 5752
Fraser, A. R., 4622
Frazier, W. A., 1516, 1524
Freeman, L. E., 5904
Freeman, L. S., 3436
Freer, S. T., 1097
French, F. S., 5620
Frenkel, E. P., 2147, 2155
Frick, G. P., 6372

Fridkin, M., 565, 599, 609, 667
Fridovich, I., 1217, 4796
Friedberg, S. J., 4005
Frieden, C., 5630, 5637, 5644
Frieden, E., 4111
Friedman, B. E., 1171
Friedman, L., 2405
Fritz, R. R., 4646
Froehlich, J. P., 2186, 2307
Frolov, V. N., 7059
Fromageot, P., 1712
Fronticelli, C., 4968
Fu, J. C. C., 5779
Fu, T.-Y., 2083
Fujimura, R. K., 2168, 2174
Fujitani, H., 1471
Fukuda, M. N., 6218
Fukushima, K., 6505
Fullmer, H. M., 3162
Fung, C. H., 2421, 6574
Furano, A. V., 898
Furie, B., 3235, 6807
Furie, B. C., 3235, 6807
Furuichi, Y., 5043
Fussganger, R. D., 2761
Futch, T. W., 3140

G

Gacon, G., 5875
Gage, L. P., 3794
Gahmberg, C. G., 510, 6108
Gait, M. J., 4481
Gale, P., 302
Gallagher, B. M., 1020
Gallant, S., 7120
Gallo, A. A., 2564
Gallo, M., 6562
Galonsky, A., 5027
Gannon, M. G., 6724
Garber, A. J., 826, 836, 844, 851
Garber, R. L., 7709
Garbers, D. L., 4071
Garcea, R. L., 334
Gardner, J. D., 4629, 4635, 4640, 6030
Garrett, N. E., 1846
Gasser, A., 4220
Gaylor, J. L., 6638, 7468
Gazdar, C., 2462
Gedamu, L., 1446, 1455
Gennis, L. S., 734, 741, 747, 754, 763, 769
Gennis, R. B., 1264, 1270, 1277
George-Nascimento, C., 6662
Georgiadis, A. G., 5280
Gerard, C., 6767
Gergely, J., 4224, 6160, 7551
Gerner, E. W., 3313
Gertschen, R. J., 6705
Ghazarian, J. G., 3933
Ghelis, C., 4322
Gibaud, A., 4346
Gibbons, I. R., 5793
Gibson, G., 4127
Gibson, K. D., 3763
Gibson, Q. H., 45, 1533, 2788, 2861, 7632
Gidwitz, S., 7950
Giesen, M., 6075
Gilbert, H. R., 5644
Gilleland, M. J., 498
Gillin, F. D., 5219, 5225
Gilman, A. G., 1221, 3037
Giotta, G. J., 1247
Girardot, J. M., 3269
Gitzelmann-Cumarasamy, N., 801
Giudice, L. C., 6388, 6392
Glantz, M. D., 407
Glasel, J. A., 2929
Glaser, M., 2063, 5015, 6147
Glazer, A. N., 695, 701, 705
Glew, R. H., 4751
Gliemann, J., 794
Glonek, T., 2584
Glover, E., 4936
Godchaux, W., III, 292
Godeau, J. F., 4346
Godette, G., 7644
Goebel, R., 2186
Goff, C. G., 4131
Gold, G., 1035
Gold, L., 7251, 7263
Gold, R., 4968
Goldberg, B., 3045, 6468
Goldberg, M. E., 2814, 2820
Goldfine, I. D., 4233, 4693, 6489
Goldknopf, I. L., 5901
Golds, E. E., 4729
Goldsmith, L. A., 7281
Goldstein, J. L., 2395, 3277, 3838
Goldstein, M. A., 3140
Goll, D. E., 6860
Goltzman, D., 159
Goodman, D., 6929
Goodman, D. B. P., 4162
Goodridge, A. G., 3027
Gordon, D. J., 4778, 7474
Gorski, J., 2801
Gospodarowicz, D., 2344
Goto, Y., 941
Gotte, L., 6871
Gottlieb, C., 7761
Gottlieb, P. D., 2399
Gracy, R. W., 364
Granick, S., 1340, 1347
Grant, D. M., 7661
Gratzer, W., 2825
Graves, D. J., 7480
Greaser, M. L., 866
Green, D. E., 1326
Greene, C. M., 1006
Greene, W. C., 4017
Greengard, P., 2192
Gregory, D. H., 6308
Gressner, A. M., 1500
Grier, H., 4947
Griffin, B. Y., 5580
Griffiths, G. R., 2049
Groner, Y., 2898
Gros, G., 4398
Grossman, L., 4579
Gudas, L. J., 3470
Guenzi, D., 4121
Guetzow, K. A., 5901
Guialis, A., 2729
Gunn, J. M., 3586
Gunsalus, I. C., 1116
Gupta, N. K., 137, 6379
Gupta, R. K., 2421, 2431, 6815
Gurari-Rotman, D., 1659
Gurd, F. R. N., 477, 7452
Gurley, L. R., 3685
Gurney, T., Jr., 7893
Gustafson, G., 7004
Gustafsson, J.-Å., 2831, 4047
Gutowski, J. A., 2863
Guynn, R. W., 7162
Guzelian, P. S., 4421
Guzman, R., 3112

H

Habeeb, A. F. S. A., 4616
Habener, J. F., 3893
Habig, W. H., 6183
Hackenbrock, C. R., 2147
Haddad, J. G., Jr., 4803
Hageman, J. M., 5827
Hager, L. P., 6340
Haggerty, D. F., 6901
Haines, T. H., 1828, 1835
Hajra, A. K., 5149, 7405
Hakomori, S., 2385
Hall, B. D., 6320
Halloran, L. G., 6308
Halpert, J., 7343
Hamana, K., 6287
Hamberg, M., 7816
Hammarström, S., 7947
Hammerstedt, R. H., 787
Hammes, G. G., 6953
Handin, R. I., 4273
Hänggi, U. J., 3075
Hankins, C. N., 7774
Hansbury, E., 5496
Hansen, U., 7289
Hansford, R. G., 5483
Hanson, R. W., 37, 3586
Harmony, J. A. K., 5233
Harpel, P. C., 4514
Harper, S. C., 5200, 5209
Harrelson, W. G., Jr., 4501
Harris, B. G., 3599
Harris, R. A., 6189
Harris, S. E., 524, 1960, 3738, 4713, 6475
Harrison, D., 1846
Harrison, J. E., 1371, 3197
Harrison, J. H., 6304
Harsch, M., 2070
Hart, G. W., 6513
Hartman, F. C., 3057, 4565
Hartstein, E., 1147
Hartsuck, J. A., 3191, 7088, 7095
Harvey, R. J., 7011
Harwood, J. P., 2462, 7729
Hascall, V. C., 3511
Hasegawa, R., 5759
Hashimoto, E., 6287
Haskell, J., 4947
Hass, L. F., 6699
Hasumura, Y., 4908
Haugen, D. A., 1817, 7929
Haugen, T. H., 7880
Hauser, D., 1232
Haussler, M. R., 2388
Hawkins, T. C., 5901
Haworth, R. A., 5069
Hayaishi, O., 2629
Hayashi, E., 5759
Hayes, M. B., 2644
Hayflick, L., 3521
Hazel, B., 6924
Heikkila, R. E., 2182
Heimark, R. L., 7779
Heimberg, M., 13
Heinrikson, R. L., 941
Heller, J., 905, 2952
Heller, R. A., 3815
Helting, T., 4986
Hemler, M., 5575
Henderson, L. E., 5457
Henderson, P. A., 1006
Henriksen, O., 4214
Henriksson, D., 5457
Henry, Y., 1578
Herchuelz, A., 5936
Hernandez, O., 4882
Herrick, G., 2124, 2133, 2142
Herrmann, K. M., 5440
Hersh, E. M., 4922
Hersh, L. B., 2754, 4872
Hershey, J. W. B., 6471, 7675, 7779
Hershfield, M. S., 7348
Hershfield, R., 5141
Hershko, A., 4458
Herskovits, T. T., 7657
Hesla, M. A., 6568
Hewson, W. D., 6036, 6052
Hichens, M., 302
Hickey, E. D., 5657
Hickman, S., 7581
Hidaka, H., 7508
Hidalgo, C., 4224, 6160
Hieter, P. A., 3287
Highsmith, S., 6170
Hill, E. J., 4468
Hill, R. L., 3003
Himes, R. H., 4159
Hirose, M., 1137
Hirsch, J., 5408
Hirzel, H. O., 4828
Hnilica, L. S., 1471
Ho, H. C., 4495
Hobbs, J., 1398
Hobika, G. H., 6495
Hochberg, R. B., 2087, 3320, 7336
Hochreiter, M., 2263
Hochstadt, J., 344, 1175, 1181
Hod, Y., 4458
Hodgins, D. S., 4646
Hoffman, H., 4828
Hoffman, P. G., 2179, 4544
Hofmann, K., 3576
Hofstadter, L. J., 883
Hohmann, P., 3685
Holcenberg, J. S., 5375
Holick, M. F., 397, 1020, 1025
Holick, S. A., 1020, 1025
Holland, J. F., 6739, 6747
Holland, P. C., 2030
Holleman, W. H., 1663
Holler, E., 7717
Holloway, P. W., 2113
Holmes, E. W., 2234
Holten, D., 3539
Höltje, J. V., 4199
Homandberg, G. A., 2226
Hong, K.-Y., 7952
Hong, S.-C., 776, 5814
Hooper, D. C., 5845
Hopkins, B. E., 4365
Horn, B. R., 7530
Hornbrook, K. R., 4973
Horton, W. J., 7661
Hostetler, K. Y., 4596
Hover, B. A., 6053
Howard, B. H., 2520
Hruby, V. J., 2929
Hsieh, B., 4408
Hsu, R. Y., 6574
Hsueh, A. J. W., 7729
Hu, J. H. J., 3853
Huang, C., 2110
Huang, J. J., 2882
Huang, J. S., 7095
Huang, M.-T., 4659
Huang, T.-H., 7114
Huang, T.-S., 4521
Huggins, J. W., 6173
Hughey, R. P., 7863
Hughes, F., 7431
Hultquist, D. E., 3927
Hunter, D. R., 5609
Hunter, W. J., 2241
Hunzicker-Dunn, M., 2653, 5429
Husain, M., 7367
Hutson, N. J., 5200
Hutson, S. M., 5251
Hutton, W. C., 2110

I

Iborra, F., 1712
Ibrahim, N. G., 108
Ikeda, S., 465
Ikeda, Y., 6135
Ikemoto, N., 4224, 6160, 7275
Ikezawa, H., 2487
Ilan, Jo., 5718
Ilan, Ju., 5718
Ilan, Y., 4336
Ilgen, C., 922
Il'ina, M. D., 7066
Imae, Y., 414, 1493, 3839
Ingbar, S. H., 4233, 4693, 6489
Ingelman-Sundberg, M., 2831
Ingles, C. J., 2729
Ingram, V. M., 6667
Inoue, M., 1481, 4476
Inouye, M., 6259
Insel, P. A., 7572
Ishaque, A., 7880
Ishihama, A., 4307
Ishimura, Y., 1578, 7722
Ishino, K., 2808
Ishiyama, J., 438
Issinger, O.-G., 6471
Ito, K., 1427
Itoh, R., 2234
Iverius, P.-H., 7791
Iwai, K., 6287
Iwasaki, K., 1843
Iwashita, S., 5361

J

Jackson, C. M., 3052
Jackson, M. B., 5300
Jaehning, J. A., 3794
Jagendorf, A., 7168
Jakoby, W. B., 6183
James, G. T., 5901
James, R., 3470
Jameson, J. L., 6304
Jamieson, G. A., 5944, 5950

Jarett, L., 3096, 5345, 7191
Jasaitis, A. A., 7066, 7072, 7077
Jason, C. J., 1488
Jay, E., 565, 609, 667
Jefcoate, C. R., 3706
Jencks, W. P., 1688, 1700, 1708
Jenkins, J., 5929
Jensen, D. E., 7198, 7215, 7240
Jensen, L. H., 3801
Jerina, D. M., 1219, 4882
Jilka, R. L., 5414
Johns, P. A., 3576
Johnson, B. C., 3269
Johnson, E. R., 3154
Johnson, J. L., 5505
Johnson, M. H., 7557
Johnson, P. E., 2353
Johnson, R. G., 2189
Johnston, J. M., 98
Jomain-Baum, M., 37
Jones, G., 24
Jones, M. A., 4442
Jones, M. E., 5589
Jones, W. C., Jr., 7452
Jorgensen, E. C., 4233, 6489
Jorns, M. S., 4872
Jue, D. L., 7557
Jungmann, R. A., 914

K

Kaback, H. R., 6662
Kafkewitz, D., 6929
Kahl, G. F., 5397
Kahl, R., 5397
Kahlenberg, A., 1582
Kahn, C. R., 2761
Kaiser, E. T., 3993
Kaji, A., 2299
Kalimi, M., 516
Kalra, V. K., 2493
Kamen, M. D., 129
Kamin, H., 4299, 7545
Kaminsky, L. S., 29
Kammen, H. O., 4570
Kanegasaki, S., 5361
Kanfer, J. N., 7610
Kang, A. M., 6347
Kaniike, K., 3140, 4794
Kanji, M. I., 2255, 2258, 7127
Kanner, B. I., 2453
Kano, K., 2795
Kantrowitz, E. R., 2688
Kaplan, A. P., 6481
Kaplan, N. O., 6791
Kaplan, R., 1147
Karkowsky, A. M., 4736
Karl, I. E., 826, 836, 844, 851
Karlin, J. N., 3948
Kasper, C. B., 7699
Kasvinsky, P. J., 6852
Katz, A. M., 3169, 6894
Katz, J. T., 2113
Katzen, H. M., 7610
Kaufman, S., 5310
Kaulen, A. D., 7059, 7072
Kavipurapu, P. R., 5589
Kawaguchi, A., 1406
Kawalek, J., 1385
Kawasaki, T., 1296, 5292
Kay, E., 3411
Kazarinoff, M. N., 6179
Kaziro, Y., 1843
Kean, E. L., 1548
Kearney, E. B., 3221
Keen, J. H., 6183
Keenen, S., 6909
Kefalides, N. A., 730, 1789
Keim, P. S., 941
Kellems, R. E., 3063, 6987
Keller, A., 6232
Keller, G. H., 3768
Keller, P. M., 4501
Kelley, W. N., 5448
Kelly, R. C., 7215, 7229, 7240
Kem, W. R., 4184, 6025
Kemp, S. F., 7626
Kemper, W. M., 5551
Kende, A. S., 4936
Kennedy, D. L., 4914
Kennedy, E. P., 4208
Kennel, S. J., 6197
Kenney, W. C., 2369, 5386
Kern, M., 2469
Kerwar, S. S., 503
Keutmann, H. T., 159
Keyes, S. R., 1571
Keyser, J. B., 2241
Kézdy, F. J., 1984, 3823, 5429, 6001
Khairallah, E. A., 1375
Khandelwal, R. L., 50
Khanna, V. K., 7271
Khoo, J. C., 2882
Khorana, H. G., 565, 571, 587, 599, 609, 624, 634, 642, 651, 658, 667, 676, 4481, 5124
Kibler, R. F., 2671
Kido, T., 6994
Kidson, C., 6730
Kiely, M. L., 5490
Kievitt, K. D., 2854
Killilea, S. D., 2363
Kim, B. D., 6909
Kim, J. J., 6210
Kim, Y. S., 3199, 3206
Kimura, H., 7769
Kimura, T., 6068
King, A. M. Q., 141, 150
King, T. E., 29, 2094, 2105, 7487
Kiorpes, T. C., 6465
Kipnis, D. M., 826, 836, 844, 851
Kirchberger, M. A., 725
Kirk, E. S., 4828
Kirk, L. L., 922
Kish, V. M., 5888
Kishimoto, A., 1481, 4476
Kishimoto, Y., 5237
Kisic, A., 4557
Kitabgi, P., 7053
Klapper, D. G., 2911
Klapper, M. H., 2077
Kleid, D. G., 676
Kleppe, K., 565, 651, 658, 667
Kleppe, R., 565, 651, 658, 667
Kletzien, R. F., 3014
Klyszejko-Stefanowicz, L., 1471
Knepper, J. E., 7577
Knights, R. J., 222
Knowles, A. F., 5161
Knowles, B. R., 6367
Kobata, A., 3603, 3610
Koch, G., 6097
Kodama, T., 7499
Koerner, T. A. W., Jr., 2983
Kohiyama, M., 808
Köhler, P., 2217
Koida, M., 7593
Koide, N., 4673
Kondrashin, A. A., 7066, 7072
Koontz, W. A., 368
Korcek, L., 3558
Korn, E. D., 2976, 4778, 7474
Kornfeld, S., 7581, 7761
Koroly, M. J., 7588
Kortt, A. A., 1941, 1955
Koser, M., 5936
Koszalka, G. W., 4055
Koszalka, T. R., 1789
Koval, G. J., 2186
Kozak, M., 4259
Kramer, K. J., 4979
Kraut, J., 1097
Krebs, E. G., 4521, 4850
Krenitsky, T. A., 4055
Krishna, G., 4640
Krisnangkura, K., 1597
Krueger, J. M., 88
Kuehl, F. A., Jr., 7329
Kuehl, G. V., 3254
Kuenzle, C. C., 801
Kuhlenschmidt, M. S., 4751
Kuhn, R. W., 5166
Kumaki, K., 5397
Kumar, A., 565, 571, 599, 667
Kumar, S., 5352
Kung, P. C., 2399
Kuo, I., 4751
Kuo, I. C. Y., 1603, 6315
Kuo, J. F., 1759, 4283
Kuo, W.-N., 1759, 4283
Küpper, H., 5124
Kuramoto, T., 2709, 6308
Kurokawa, T., 5686
Kurtz, D. T., 3594
Kwan, C. N., 7132

L

Labavitch, J. M., 5904
Labib, R. S., 1969
Laccetti, P., 6244
Lad, P. J., 7304
Ladany, S., 3320
Lagocki, J. W., 6001
Lake, W. C., 4162
Lam, J., 2729
Lambeth, J. D., 4299, 7545
Lambowitz, A. M., 3081
Lamed, R., 3972
Lampen, J. O., 4095, 4102
Landers, T. A., 2744
Landon, E. J., 1197
Lands, W. E. M., 5575
Landspirger, W. J., 3599
Landy, A., 5124
Lane, L. K., 4794
Lane, M. D., 6462
Langdon, R. B., 5820
Lange, A. J., 4901, 6784
Lardy, H. A., 1775, 2916, 2922, 3881, 5251, 6705
Larner, J., 1913, 1920
Larrabee, A. R., 720
Larsson, B., 1398
Lastick, S. M., 2867
Latham, K. R., 7388
Lau, P.-W., 6838
Law, J. H., 4979, 6001
Leach, B. S., 3856
Leavis, P., 7551
Lebherz, H. G., 4355
Lee, C. K., 6226
Lee, E. Y. C., 2363
Lee, G. R., 1015
Lee, J. C., 1846
Lee, L.-S., 2600
Lee, M.-L., 3254, 3261
Lee, N. T., 2077
Lee, P. C., 914
Lee, S. H., 198
Lee, Y. M., 1553
Leeman, S. E., 7035, 7045, 7053
Lees, R. G., 676
Lefkowitz, R. J., 2374, 3096, 4686, 5007, 6915
LeGendre, S. M., 3287
Lehman, I. R., 3432, 4078, 4085, 4090
Lehninger, A. L., 968, 4442, 5670, 7442
Lehrer, S. S., 7551
Lehrman, S. R., 5827
Leigh, J. S., Jr., 2777
Leikola, J., 6108
Leimgruber, R. M., 7103, 7110
Lemelin, M. A., 1571
Lennarz, W. J., 2511, 7802
Leone, G. R., 1505, 1511
LeQuire, V., 4468
Lesca, P., 116
Lesniak, M. A., 3720
Levin, C. J., 1767
Levin, W., 1219, 1385, 4552, 4882
Levine, A. E., 5911
Levine, L., 776, 5814
Levine, S. P., 324
Levit, S., 1333
Levitzki, A., 4930
Levy, C. C., 3287, 5745, 5752
Levy, J., 1731
Lewin, M., 7690
Lewis, A. S., 407
Lewis, M. S., 6562
Li, C.-C., 1175, 1181
Li, S.-C., 471, 1159, 4384
Li, Y.-T., 471, 1159, 4384
Liberman, E. A., 7059
Liberman, U. A., 7826
Lieber, C. S., 4908
Lieberman, S., 2087, 3320, 7336
Lienhard, G. E., 2863
Light, A., 222
Light, R. J., 424, 431
Lim, J., 2094, 2105
Limbird, L. E., 5007
Lin, A., 1808, 4666, 7940
Lin, L., 1795, 4398
Lin, W., 5703
Lindell, T. J., 2388
Lindenmayer, G. E., 4794
Lingrel, J. B., 5512
Linn, S., 3716
Lipkin, M., 2592
Lipscomb, J. D., 1116
Lipscomb, M. S., 3261
Lipscomb, W. N., 2688, 5992
Little, J. S., 7821
Littlefield, J. W., 3075
Liu, T.-Y., 1936, 1941, 1948, 1955
Liu, W.-K., 308, 316
Liu, Y. P., 4193
Lo, C.-S., 7826, 7834
Lo, K.-Y., 2475, 2480
Locker, J., 536
Lode, E. T., 1675, 1683
Loeb, L. A., 975, 982
Loeser, B. K., 5607
Loewen, P. C., 565, 642, 667
Lombart, C., 5950
Loomis, W. F., 2680, 6252
Loughran, E. D., 5496
Louie, D. D., 4557, 7952
Low R. L., 1311
Lowenstein, J. M., 485, 6372, 7322
Lu, A. Y. H., 1219, 1385, 4659, 4882
Lu, P., 3359, 3774
Lucas, S. V., 3352
Luck, D. J. L., 2161, 3081
Ludueña, M. A., 2620
Ludwig, D., 1283
Luedi, M., 7675
Lukens, L. N., 3530
Lumeng, L., 277
Lund, K., 2207
Lusis, A. J., 7753
Lusk, J. E., 7577
Lutz, H. U., 3500
Luzzatto, L., 2993
Lynch, R. E., 1015
Lyon, J. A., 1303

M

Macchia, V., 6244
MacGregor, R. R., 6711
Mack, D. O., 3269
Mackall, J. C., 6462
MacKay, V., 3716
MacLennan, D. H., 712, 2030, 4147, 7271, 7733
MacLeod, K., 7380
Madsen, N. B., 6142, 6852
Magasanik, B., 2722
Mage, R. G., 6798
Magnusson, R. P., 6874, 7417
Maguire, M. E., 1221
Mahesh, V. B., 4947
Mahler, H. R., 257, 270, 6327, 6335
Mahley, R. W., 2395, 3838
Mahuren, J. D., 1646
Mailänder, B., 3623
Mains, R. E., 4115, 4121
Maitra, S. K., 174
Maitra, U., 3338
Majumdar, A., 137
Majumder, A. L., 7149

Makino, R., 6340, 7722
Malaisse, W. J., 1731, 5936
Maley, F., 6537
Maloof, F., 2525
Mandel, P., 493, 3900
Manganiello, V. C., 6205
Manley, R. V., 3191
Mann, D. L., 5427
Mann, K. G., 3235
Manning, C. P., 3887
Manning, J. M., 7638
Mansour, T. E., 3664
Mäntsälä, P., 3294, 3300
Mapes, J. P., 6189
Marcel, R. J., 503
Marciniszyn, J. Jr., 7088, 7095
Marcus, A., 6075
Marcus, C. J., 2963
Marcus, F., 1775
Margoliash, E., 1104, 2197
Margolis, F. L., 6232
Margolis, R., 6439
Marklund, S., 7504
Markus, G., 6495
Marotta, C. A., 3122
Marshall, J. J., 1081
Martelo, O. J., 5408
Martensen, T. M., 3664
Martin, D. B., 1505, 1511
Martin, G., 6886
Martin, R. B., 2110
Martin, S. A., 2539, 7313
Martinez, H. M., 334
Martinez, R. J., 701
Martinez-Carrion, M., 1853, 5233, 5663
Martín-Requero, A., 7785
Martonosi, A. N., 5414
Masoro, E. J., 2037
Massey, V., 2550, 5321, 5327, 7367
Masters, B. S. S., 5337
Mastro, A. M., 7899
Masushige, S., 6465
Matheson, M. J., 6831
Matschinsky, F. M., 6053
Matsubara, T., 2385, 4010
Matsukawa, S., 7494
Matsumura, G., 6218
Matsumura, S., 6267
Matsuo, M., 6267
Matta, M. S., 1006
Matthew, J. B., 477
Matthews, K. S., 1171
Matthews, R. G., 3956
Maurer, R. A., 2801
Maxwell, E. S., 1723
May, M. E., 3856
Mays-Rothberg, C. J., 5901
Mazur, A., 5703
McCaman, M. T., 1531
McCarty, R. E., 1610, 6874, 7417
McCaslin, D. R., 7545
McCay, P. B., 4973
McClure, D., 3677
McConkey, E. H., 548, 555, 2867, 2876
McCray, J. A., 1418, 2579
McCurdy, P. R., 7557, 7563
McDonald, J. M., 5345, 7191
McDonald, P. D., 2087, 7336
McEwen, B., 7632
McGarry, J. D., 6007
McGovern, P., 7871
McGuire, M. S., 7746
McGuire, R. F., 3500
McKee, P. A., 1591
McKelvy, J. F., 2929
McKnight, G. S., 5490
McLaughlin, A. C., 2777
McMahon, D., 2637
McPartland, R. P., 4372
McPherson, A., Jr., 6300
McQuarrie, C., 6335
McReynolds, L. A., 7355
McWilliams, D., 820
Meadows, M., 6147
Means, A. R., 3868
Meighen, E. A., 2541, 4479
Meister, A., 2263, 6674
Melamud, E., 2431
Meldolesi, M. F., 6244
Melmon, K. L., 7572
Menninger, J. R., 3392
Menon, K. M. J., 7398, 7405
Merkel, C. G., 5512
Merrick, W. C., 5551
Mescher, M. F., 2005, 7289
Metuzals, J., 7682
Metzger, J. F., 5580
Meyer, T. E., 129
Michaliszyn, G. A., 2541, 4479
Michelacci, Y. M., 1154
Middlebrook, J. L., 5580
Midelfort, C. F., 5881
Mieyal, J. J., 3352, 3436, 3442
Mikelsaar, H., 7077
Mikkelsen, R. B., 7413
Mildvan, A. S., 2412, 2421, 2431, 6574
Milgrom, E., 4758
Millay, R. H., Jr., 2754
Miller, J. A., 3269
Miller, J. H., 3359, 3774
Miller, M. R., 3671, 3677
Miller, R. C., 565, 642, 667
Miller, R. R., 4751
Miller, S. P., 2271
Miller, Z., 2344
Millero, F. J., 4001
Mills, S. E., 7774
Milner, Y., 7920
Milstien, S., 5310
Minamoto, K., 565, 587, 667
Minor, R. R., 1789
Misra, T. K., 7669
Mitsui, Y., 4792
Mittal, C. K., 7769
Miura, Y., 4448
Miyamoto, T., 2629
Modolell, J., 1718
Modrich, P., 3432, 5866
Moffat, K., 45
Moll, G. W., Jr., 3993
Momsen, W. E., 378, 384
Monahan, J. J., 3738, 7355
Moo-Penn, W. F., 7557, 7563
Moore, E. G., 2788
Moore, L., 1197
Moore, R. J., 5895
Moore, W. V., 4247
Mope, L., 236
Moran, R. G., 3569
Morawetz, H., 2083
Morgan, R. A., 3756
Morley, T. F., 2037
Moroi, M., 5956
Morré, D. J., 5054
Morris, J. E., 2571
Morrissett, H., 7263
Morrissey, J. J., 5516
Morrow, J. S., 477
Morse, M. L., 5522
Mortimore, G. E., 1375
Mosbach, E. H., 2709, 6308
Moscarello, M. A., 5860
Mosher, D. F., 1639
Moss, B., 2539, 5283, 7313
Moss, J., 4490
Moss, T. H., 6157
Motoyoshi, K., 1843
Moudrianakis, E. N., 7796
Mowery, P. C., 2369
Muench, K., 3254, 3261
Muench, K. H., 5195
Muhlrad, A., 3972
Mukherjee, A., 1476, 2147, 2155, 5242
Muldrey, J. E., 4384
Mullenbach, G. T., 4570
Mulligan, J. H., 1052
Mullikin, D., 4686, 6915
Munro, H. N., 2945
Murad, F., 7769
Murad, S., 5237
Muramatsu, T., 4673
Murphy, R. A., 459
Murray, C. L., 1675, 1683
Murrill, P. A., 2716
Muthukrishnan, S., 5043
Myllyla, G., 6108

N

Nachman, R. L., 4514
Nagata, S., 1843
Nagel, R. L., 7657
Nagle, D. P., Jr., 7649
Naider, F., 5300
Naito, S., 4307
Nakae, T., 2176
Nakai, T., 4914
Nakajima, T., 174
Nakamura, H., 5414
Nakashima, K., 4315
Nakaya, S., 1481
Namtvedt, M. J., 1116
Narayanan, A. S., 1125, 5464
Neary, J. T., 2525
Nebert, D. W., 1817, 5397
Neer, E. J., 5831
Neet, K. E., 7521
Nelsestuen, G. L., 5648, 6886
Nelson, T. E., 3140
Nemeček, I. B., 7077
Nemerson, Y., 4797
Nervi, F. O., 3831
Nesbitt, J. A., III, 2344
Nester, E. W., 6974
Neuberger, M. R., 1936
Neuwelt, E. A., 5752
Newman, M. J., 3834
Nicholson, J. A., 3206
Nicolas, P., 3965
Nicolson, G. L., 1074
Niederman, R. A., 6929
Nielsen, C. J., 2279
Nigen, A. M., 7638
Nikodijevic, O., 2179, 4544
Nishi, N., 3576
Nishimura, J. S., 3117
Nishiyama, K., 1481
Nishizuka, Y., 1481, 4476, 6267, 6287, 6392
Noble, R. W., 6692
Nobrega, F. G., 6767
Noda, L. H., 3021
Nomura, M., 209, 2540
Nordeen, S. K., 7295
Nordling, S., 6108
Noris, K., 4481
Norton, I. L., 4565
Norton, R. S., 6522
Nossal, N. G., 5219, 5225
Nowak, T., 73, 6294
Nunez, J., 1431
Nuret, P., 4843
Nuttall, F. Q., 6724
Nyman, P. O., 5457

O

O'Connell, E. L., 902
O'Conner, J. L., 1632
Oegema, T. R., 3511
Oesch, F., 79
O'Farrell, P. Z., 7251, 7263
Ogawa, H., 7281
Ogawa, K., 5793
Ogez, J. R., 4551
Ogino, N., 2629
Oh, K.-J., 3154
Oh, Y. H., 3194
Ohad, I., 247
Ohnishi, T., 2094, 2105
Ohno, S., 1625
Oka, T., 1738, 2795, 3520
O'Keeffe, D. H., 4010
Okumura, T., 5944, 5950
Okuyama, H., 2487
Oldfield, E., 6147
O'Leary, M. H., 2248
Oliver, D., 7168
Olsnes, S., 3977, 3985
Olson, J. S., 441, 447, 1171, 4379, 7871, 7952
Olson, M. O. J., 5901
Olson, M. S., 1364
O'Malley, B. W., 516, 524, 1137, 1960, 3738, 3868, 4713, 5166, 5178, 5565, 6475, 7355
Opella, S. J., 5976
Oplatka, A., 3972
Orii, Y., 7487
Orlosky, M., 6117
Orlowski, M., 4736
Orme-Johnson, N. R., 3933, 7120
Orme-Johnson, W. H., 3706, 7120
Orr, J. C., 3734
Ose, D. E., 1217, 4796
Oshima, R. G., 4287
Östberg, L., 4986
Østerlind, K., 794
Ostlund-Lindqvist, A.-M., 7791
Ostrander, M., 2605
Ostroumov, S. A., 7059
Osuga, D. T., 3033
Otaka, T., 2299
Otto, P. S., 4914
Ozols, J., 6767

P

Pace, C. S., 6053
Pace, N. R., 3122, 3480
Pace-Asciak, C. R., 3381
Page, R. C., 1125, 5464
Pagliara, A. S., 6053
Paigen, K., 7753
Pal, S., 6439
Palacios, R., 4787
Palmer, G., 4379, 7144, 7907
Palmer, J. L., 5817
Palmieri, S., 6379
Panasenko, S. M., 3432
Pande, S. V., 6683
Panet, A., 565, 642, 651, 667
Paoletti, E., 2539
Pappenheimer, A. M., Jr., 5770
Pardee, A. B., 3470
Pariza, M. W., 3014
Park, C. R., 5209
Park, J. H., 4468
Parker, C. M., 4017
Parker, C. W., 4017
Parker, S., 1864
Parkhurst, L. J., 2579
Parrilla, R., 7785
Parsons, T. F., 7886
Parvin, R., 6683
Pasquali-Ronchetti, I., 6871
Passonneau, J. V., 2015
Pastan, I., 2344, 5802, 6562
Patnode, R., 4468
Patt, C. S., 7304
Pattishall, K. H., 7011
Pattnaik, N. M., 1984
Paucker, K., 4810
Paukert, J. L., 5104
Paul, D. P., 7120
Paxton, J., 7329
Payne, D. W., 5272
Payne, J. R., 2248
Peacock, A. C., 5845
Peanasky, R. J., 2226
Pearl, L., 6947
Pearlman, W. H., 5272
Pedersen, J. I., 3933
Pedersen, P. L., 934
Pederson, T., 5888
Peisach, J., 1578, 3045, 6090
Penefsky, H. S., 1846
Peng, L.-H., 5272
Penhoet, E. E., 4570
Pennelly, R. R., 6692
Penniston, J. T., 253

Peraino, C., 2571
Perdue, J. F., 6445
Pérez-Díaz, J., 7785
Perl, M., 3221
Perlmutter, J. F., 5015
Perry, J. W., 1738, 3520
Peterkofsky, A., 241, 2462, 3229
Peterkofsky, B., 4770
Peters, B. A., 7521
Peterson, J. A., 4010
Peterson, J. L., 548, 555
Peterson, P. A., 4986, 6360
Peterson, R. C., 4979
Petrella, V. J., 7431
Pfeiffer, D. R., 5251
Pfeiffer, S. E., 5112
Phan, S. H., 257, 270
Phillips, H. M., 5976
Phillips, W. F., 2876
Philpot, R. M., 3213
Piatigorsky, J., 4294, 4416
Pichard, A.-L., 5726
Pickett, W. C., 2536
Pierce, J. G., 6388, 6392
Pierce, R. C., 2405
Piez, K. A., 6062
Pihl, A., 3977, 3985
Pilkis, S. J., 7841
Pink, R., 5391
Piperno, G., 2161
Pirkola, A., 6108
Pirtle, R., 6259
Pisano, J. J., 6550
Pistorius, E. K., 7144
Pizzo, S. V., 1591
Plakunova, V. G., 7059
Planet, G., 5839
Plantner, J. J., 1548
Plas, C., 1431
Pledger, W. J., 4922
Poduslo, J. F., 153
Pointer, R. H., 2987
Polakis, S. E., 6462
Poland, A., 4936
Polet, H., 987
Pollara, B., 4026
Pollard, H. B., 2179, 4544
Pollock, R. J., 5149
Polokoff, M. A., 1488
Polsky-Cynkin, R., 776
Ponticorvo, L., 7336
Poorthuis, B. J. H. M., 4596
Popják, G., 1057, 6901
Porter, D. J. T., 6150
Portis, A. R., Jr., 1610
Poston, J. M., 1859
Potter, J. D., 7551
Potter, V. R., 3014
Potts, J. T., Jr., 159, 3893
Potts, R., 5478
Poulos, T. L., 1097
Poulson, R., 3730
Pousada, M., 1835
Pousette, Å., 4047
Powell, G. L., 4706
Powell, J. T., 204, 3645, 3653
Powers, S. G., 3780, 3786
Pownall, H. J., 7952
Prasad, C., 2462, 3229
Prasad, R., 2493
Pratt, W. B., 2279
Preiss, J., 7880, 7886
Presant, C. A., 1864
Pressman, D., 4214
Pricer, W. E., Jr., 7539
Procsal, D., 3539
Prusiner, S., 3447, 3457, 3463
Prusoff, W. H., 4833, 4839, 6555
Purves, W. K., 907

Q

Quarles, R. H., 153
Quaroni, A., 3250
Quinlan, D. C., 344

R

Rabinowitz, J. C., 1675, 1683, 2499, 5104, 7649
Rabinowitz, M. L., 1081
Rabon, E., 7690
Racker, E., 2446, 2453, 5161, 6831
Radcliffe, R., 4797
Radloff, D., 914
Radman, M., 1438
Raetz, C. R. H., 3242
Raibaud, O., 2814, 2820
Raizada, M. K., 6445
Rajagopalan, K. V., 5505
RajBhandary, U. L., 565, 667
Ramadoss, C. S., 98
Ramamoorthy, B., 565, 587, 609, 667, 676, 4481
Ramanarayanan, M., 6274
Rand-Meir, T., 6340
Rando, R. R., 3306
Rangaraj, G., 3381
Rangel-Aldao, R., 3375, 7526
Ranney, H. M., 4267
Ranu, R. S., 1926
Rao, B. D. N., 6981
Rao, S. N., 3191
Rapoport, B., 6653
Rashbaum, S. A., 1311
Rask, L., 4986, 6360
Rasmussen, H., 4162
Rathnam, P., 993
Rauvala, H., 7517
Ray, T. B., 5824
Reddy, K. N. N., 6624
Redfield, A. G., 7114
Redman, C. M., 3887
Reed, D. W., 3927
Reed, G. H., 1975, 4159
Reed, K. C., 1625
Reed, P. W., 3489
Rees, D. C., 471
Reeve, J. R., 6388
Reeves, R. E., 2958
Refsnes, K., 3985
Regitz, G., 247
Reichard, P., 3616
Reichert, L. E., Jr., 3326
Reinsch, J. W., 1303
Reisberg, P., 4379, 7871
Relimpio, A. M., 1853
Relyea, N., 3306
Repke, D. I., 3169
Reppucci, A. C., Jr., 3942
Resnick, A. D., 2722
Reynafarje, B., 5670, 7442
Reynolds, J. A., 4005, 6013
Rhead, W. J., 4287
Rhee, S., 7669
Rich, A., 3893
Rich, D. H., 5827
Richards, E. G., 5242
Richards, F. M., 5141
Richardson, C. C., 1561
Richardson, C. D., 5544
Richet, E., 808
Rideout, J. L., 4055, 6757
Ridge, J. A., 5966
Rietsch, J., 3128
Riggs, A., 4254, 5537
Righetti, M., 2716
Ring, J. C., 7388
Riordan, J. R., 5860
Riou, J. P., 7841
Riverin, M., 3875
Roach, P. J., 1913, 1920
Roark, D. E., 7083
Robb, R. J., 5427
Robberecht, P., 4635
Robbins, A. R., 3112
Robbins, K. C., 3693, 5810
Roberts, J., 2119, 5375
Roberts, M. F., 5966, 5976
Roberts, R. M., 4680
Roberts, W. K., 1009
Robles-Valdes, C., 6007
Robson, R. M., 6860
Rodbard, D., 1239
Roeder, R. G., 1064, 3794
Rogers, G. A., 5711
Rohrbach, M. S., 930
Roman, R., 6075
Romeo, J. M., 7649
Roop, B. C., 2168
Rosa, J., 4346
Rose, I. A., 61, 69, 902, 5431, 5881
Rose, Z. B., 4817
Roseman, S., 6584, 6598, 6606
Rosen, B. P., 962
Rosen, O. M., 3375, 7526
Rosen, S. W., 1723
Rosenberg, A., 493, 3900, 7083
Rosenberg, L., 6439
Rosenberg, L. E., 6616
Rosenberg, M., 3480
Rosenberg, R. D., 6481
Rosenblatt, M., 159
Rosenbloom, J., 2070
Rosenbusch, J. P., 5986
Rosenfeld, I. S., 2241
Rosenfeld, M. G., 2842
Ross, E., 1991, 1997
Rosso, G. C., 6465
Rossomando, E. F., 6568
Roth, J., 1877, 2761, 3720, 5929, 6844
Roth, Je., 6479
Rothgeb, T. M., 7452
Rothschild, M. A., 2709
Rotman, B., 3112
Routes, J., 6335
Roy, A. K., 524
Roy, K. L., 6352
Rozengurt, E., 7899
Rubenstein, K. E., 4172
Rubin, E., 5366
Rudolph, F. B., 320, 3563, 7157
Ruegg, U. Th., 1659
Rumley, M. K., 4208
Russel, M., 7251, 7263
Russell, D. H., 3313
Russell, T. R., 2344
Rutter, W. J., 1464
Ryan, C. A., 7004
Ryan, D., 1219, 1385
Ryan, T. E., 4147

S

Saat, Y. A., 5155
Sabaitis, J. E., Jr., 4706
Sable, H. Z., 2564
Saccomani, G., 7690
Sachs, G., 7690
Sadowski, J. A., 2770
Saffran, J., 5607
Sagers, R. D., 7661
Saide, J. D., 459
Saier, M. H., Jr., 883, 893, 1531, 3834, 5522, 6584, 6598, 6606
Saint Leger, D., 4322
Salerno, J. C., 2094
Sallay, S. I., 1646
Salvador, R. A., 503, 5280
Salvaterra, P. M., 6327, 6335
Samuelsson, B., 7816
Samuilov, V. D., 7066
Sanburg, L. L., 4979
Sander, E. G., 4680, 6909
Sando, J. J., 2279
Sandvig, K., 3977, 3985
San-Millan, M. J., 1718
Sanny, C. G., 3191, 3853
Sargeant, T. E., 1745
Sarkar, S., 7600
Sato, K., 3734
Sato, T., 4062
Sawicki, C. A., 1533
Saxena, B. B., 993
Saz, H. J., 2217
Scallen, T. J., 5496
Scanu, A. M., 1131, 1984, 3823, 5429, 7437
Scarpa, A., 2189
Schachter, D., 7176, 7184
Schackman, R., 7690
Schaffer, M. H., 5966, 5976
Schatz, G., 1991, 1997
Schechter, A. N., 1283, 1290, 6426 6431
Scheffler, I. E., 4588
Schenkman, J. B., 1571
Scherer, J. R., 2290
Schimke, R. T., 3063, 3521, 5490, 6987
Schimmel, P. R., 6823
Schindler, M., 4330
Schleicher, E., 5478
Schlosnagle, D. C., 4680
Schlossman, D. M., 5738
Schmeissner, U., 3359
Schmidt, F. J., 2440
Schmidt, M. R., 4267
Schmidt, R. M., 7557
Schmitz, A., 3359
Schneider, J. A., 4287
Schnoes, H. K., 24, 1020, 1025
Schoemaker, H. J. P., 6823
Schoner, R., 5440
Schonfeld, G., 3921
Schrader, W. P., 4026
Schrader, W. T., 5166, 5178
Schramm, V. L., 37, 3417
Schraufrogel, P. K., 397
Schroeder, F., 5015, 6739, 6747
Schroepfer, G. J., Jr., 4448, 4557
Schulman, H., 4208
Schulman, L. H., 3338
Schulte, H. F., 2279
Schultz, J., 1371, 3197
Schultz, V., 485
Schuster, S. M., 1775, 6705
Schwartz, A., 3140, 4794
Schwartz, C. C., 6308
Schwartz, N. B., 285, 3346
Schwartz, R. J., 524, 5166, 5178
Schwarzberg, M., 4172
Schweppe, J. S., 914
Scornik, O. A., 2891
Scott, C. R., 4179
Seal, G., 975
Seal, S. N., 6075
Seamonds, B., 2579
Sears, B., 2110
Seballos, H. L., 4979
Seber, J. F., 204
Sedman, R. M., 4996
See, Y. P., 7682
Seegmiller, J. E., 7348
Seery, V. L., 1759
Segal, H. L., 2323
Segel, I. H., 4389, 4551
Segen, B. J., 3763
Seidel, J. C., 7551
Seidman, J. G., 2440
Seifried, H. E., 7468
Sekiguchi, M., 2613
Sekiya, T., 565, 634, 642, 667, 4481, 5124
Sekura, R., 2263
Semenov, A. Y., 7059, 7072, 7077
Semenova, E. G., 7077
Semenza, G., 3250
Semple, H., 6142
Senear, A. W., 1902
Sener, A., 1731, 5936
Seney, M. N., 4239
Seng, R. L., 2369, 5386
Senior, A. E., 7103, 7110
Sentenac, A., 1712
Serrano, R., 2453, 2958
Server, A. C., 165, 1188
Setlow, P., 7853
Seto, B., 2435
Severina, I. I., 7072, 7077
Seybert, D. W., 45
Shaffer, P. W., 5027
Shafferman, A., 4336

Shaltiel, N., 5711
Shamoo, A. E., 712, 4147
Shane, B., 1042, 3405
Shaper, J. H., 695, 701, 705
Shapira, E., 4867
Shapira, R., 2671
Shapiro, B. M., 5911, 5921
Shapiro, D. J., 3105
Shapiro, E. R., 6157
Sharief, F., 4501
Sharma, V. S., 4267
Sharon, N., 4330
Sharrock, W. J., 2499
Shatkin, A. J., 4259, 5043
Sheaff, C. M., 2696
Shear, M., 7572
Sheibley, R. H., 6699
Shertzer, H. G., 2446
Shigekawa, M., 6894, 6947
Shiman, R., 368, 3671, 3677
Shimizu, K., 2613
Shimojo, T., 4448
Shindo, H., 2644, 2648
Shiota, T., 6505
Shipley, G. G., 3749
Shires, A., 4155
Shizuta, H., 6562
Shizuta, Y., 6562
Shoji, M., 1759
Shooter, E. M., 165, 1188
Short, S. A., 6662
Shoup, V. A., 3845
Shrewsbury, M. A., 3815
Siddiqui, U. A., 3352
Sidorova, N., 587, 667
Siefring, G. E., Jr., 3913
Siegel, R. C., 5779, 5786
Siegelman, H. W., 2405
Sieker, L. C., 3801
Silberstein, H., 3176, 3185
Silbert, J. E., 3942
Silk, S. T., 6963
Silverman, D. N., 4428
Silverstein, E., 6775
Siminovitch, L., 2729
Simoni, R. D., 893, 6584
Simonpietri, P., 6735
Simons, C. G., 4233
Simons, S. S., Jr., 334
Simpson, R. J., 1936
Sinensky, M., 1270
Singer, D. S., 7363
Singer, M. F., 2334, 7363
Singer, T. P., 2369, 3221
Singh, I., 6860
Singh, M., 2911, 5242
Siperstein, M. D., 2716
Sippel, A. E., 3594
Skarstedt, M. T., 6775
Sklar, V. E. F., 1064, 3794
Skulachev, V. P., 7059, 7066, 7072, 7077
Slaby, F., 5078
Slade, C. L., 1591
Slebe, J. C., 1853, 5663
Sligar, S. G., 1116
Sloan, D. L., 2412, 2431
Slykhouse, T. O., 5472
Small, D. M., 3749
Smith, D. F., 4214
Smith, D. J., 4165
Smith, E. L., 5835
Smith, G. J., 4233
Smith, H. O., 6117, 6122, 6127
Smith, I., 3122
Smith, L. C., 7952
Smith, P. D., 1418, 2579
Smith, R. G., 3868
Smith, S., 2976
Smith, T. W., 4365
Smith, W. L., 5575
Snell, E. E., 1042, 1052, 3780, 3786, 6179
Snoke, R. E., 2922
Snyder, F. W., Jr., 1670
Snyder, S. H., 5680, 7423
Snyder, S. M., 6489
Sobhani, M. K., 3277
Soda, K., 6994
Soderling, T. R., 4359
Soffer, R. L., 4828
Sogin, M. L., 3122, 3480
Solomon, F., 902, 1700
Sommer, H., 3774
Sonnenblick, E. H., 4828
Sono, M., 1418, 2664
Soodak, M., 2525
South, D. J., 2958
Southard, J. H., 5069
Souza, D. O. G., 6355
Spatola, A. F., 2929
Spero, L., 5580
Sperow, J. W., 2611
Spieker-Polet, H., 987
Spiro, M. J., 6400, 6409, 6420
Spiro, R. G., 4062, 6400, 6409, 6420
Spitz, F., 3693
Spivak, J. C., 3169
Srere, P. A., 1476, 2147, 2155, 2911, 5242
Srikantaiah, M. V., 5496
Srinivasan, K. R., 5352
Srinivasan, P. R., 6274
Sripati, C. E., 2898
Srivastava, P. N., 1531
Srivastava, S. K., 2271
Stacy, A. R., 4026
Stadtman, E. R., 3447, 3457, 3463
Stadtman, T. C., 2435
Stallcup, M. R., 2499
Stark, G. R., 5966, 5976
Stead, N., 6481
Steer, M. L., 4930
Stefanovic, V., 493, 3900
Steggles, A. W., 3425
Stein, G., 4336
Stein, R. L., 1006
Steinberg, D., 2882
Steiner, M., 6135
Steinfeld, A. S., 5300
Steinman, H. M., 1591
Steitz, J. A., 1902
Stenflo, J., 355, 3052
Stephani, R. A., 6674
Stephens, R. S., 403
Stephenson, J. R., 4859
Stern, A., 3045, 6468
Stevens, F. C., 4495
Stewart, J. A., 2353
Stewart, P. S., 712, 4147, 7271
Stitt, D. T., 3105
Stöffler, G., 1808, 4666
Stokes, B. O., 4165, 5558
Stokstad, E. L. R., 3405
Stone, R., 2801
Stoolmiller, A. C., 7626
Stoops, J. K., 3194
Storey, K. B., 7810
Storm, D. R., 7950
Stotish, R. L., 302
Strada, S. J., 4922
Strand, M., 559
Straub, K. D., 6529
Straus, L. D., 5104
Strause, E. L., 1789
Strawser, L. D., 720
Strickland, S., 5694
Strider, W., 6439
Stringer, E. A., 3338
Strittmatter, P., 5095
Stromer, M. H., 6860
Strominger, J. L., 414, 1264, 1270, 1277, 1493, 2005, 3839, 5427, 7289 7947
Strong, J. M., 3352
Strout, H. V., 2525
Struck, D. K., 2511
Strycharz, G. D., 5237
Student, A. K., 6462
Stull, J. T., 4521
Suelter, C. H., 124
Suen, E. T., 3269
Sugino, Y., 5686
Suld, H. M., 2530
Sulkowski, E., 5381, 7620
Sullivan, B., 1871, 7557, 7563, 7644
Summaria, L., 3693, 5810
Sundari, R. M., 3338
Sung, S.-S. J., 5852
Sussman, H. H., 2620, 4139
Suter, P., 5986
Sutter, A., 1188
Suttie, J. W., 2770, 3052, 5827, 6238
Suzuki, A., 6860
Suzuki, K., 4792
Suzuki, T., 6994
Svensson, E., 4047
Sweeley, C. C., 1597
Swell, L., 6308
Swick, R. W., 1029
Sygusch, J., 6142
Szczesna, E., 820
Szutowicz, A., 1516, 1524

T

Tabachnick, M., 3558
Tada, M., 725
Tai, J. Y., 1948, 1955
Takai, Y., 1481, 4476
Takasaki, S., 3603, 3610
Takeda, M., 6287
Takeda, Y., 1913
Takeishi, K., 6259
Takeshita, M., 7494
Takeya, T., 565, 634, 667
Takio, K., 236
Taku, A., 1889, 6154
Talbert, L. M., 5272
Tall, A. R., 3749
Tamura, T., 414
Tang, J., 4528, 7088, 7095
Tanigaki, N., 4214
Taniuchi, H., 6934
Tan-Wilson, A. L., 6692
Tarentino, A. L., 6537
Tavela, T. E., 397, 1020, 1025
Taylor, E. W., 2307
Taylor, H. C., 2044
Taylor, J. M., 3768, 7461
Taylor, L. M., Jr., 1591
Taylor, P., 858
Taylor, R. E., 3162
Teale, J. M., 4603, 4609
Tedro, S. M., 129
Teller, D. C., 5375
Teller, J. H., 3780
Teng, Y.-S., 4179
Tenu, J.-P., 4322
Teo, T. S., 4495
Tephly, T. R., 4996
Teschke, R., 4908
Thelander, L., 1398
Theoharides, T. C., 1781, 3520, 4436
Thiers, D. R., 7821
Thoene, J. G., 4287
Thomas, D. A., 1253, 1258
Thomas, J., 5027
Thomas, P. E., 1385
Thomas, S. R., 6252
Thompson, G. A., 53, 1618
Thompson, W. J., 4922
Thorpe, C., 3553, 7726
Tiefert, M. A., 7796
Timasheff, S. N., 1846
Timkovich, R., 2197, 4033
Tobey, R. A., 3685
Toews, M. L., 2255, 2258, 7127
Tolbert, N. E., 4408
Tomasi, T. B., 1969
Tomasz, A., 4199
Tomasz, J., 5043
Tomichek, E. A., 730
Tomimatsu, Y., 2290
Tomino, S., 7753
Tomita, T., 5759
Tomkins, G. M., 334
Tomoda, A., 7494
Toole, B. P., 895
Toomey, T. P., 204
Torchia, D. A., 6062
Torem, B., 4722
Törmä, E. T., 4810
Tornheim, K., 7322
Tornqvist, H., 813
Touster, O., 3845
Tove, S. B., 2241
Towle, H. C., 1960, 5565
Traut, R. R., 6471, 7779
Tregear, G. W., 159
Trela, J. M., 3134
Tropp, B. E., 6717
Troxler, F., 1232
Tsai, I., 503
Tsai, M.-J., 516, 524, 1137, 1960, 4713, 5565, 6475
Tsai, P., 2839
Tsai, P.-K., 364
Tsai, S. Y., 516, 4713, 5565, 6475
Tsay, G. C., 5852
Tse, T. P. H., 7461
Tsuchiya, T., 962, 5315
Tsuda, M., 5686
Tsurugi, K., 1808, 7940
Tu, C., 4428
Tuboi, S., 4315
Tusa, P. P., 1207
Tuttle, J. V., 4055
Tweto, J., 872
Tyhach, R. J., 6717
Tyson, C. A., 1326

U

Uchino, H., 1427
Ueda, T., 2192
Ulane, R. E., 3367
Ullman, E. F., 4172
Umbarger, H. E., 3545
Uno, I., 2192
Uozumi, T., 2808
Ureta, T., 5035
Urry, D. W., 6871
Uyeda, K., 98
Uyemura, D., 4078, 4085, 4090

V

Vagelos, P. R., 2063, 2882, 5015, 6739, 6747
Vaidya, V., 4722
Valdez, R. O., 3117
Valenzuela, P., 1464
Vanaman, T. C., 4501
Van Arsdale, P. M., 3037
Vance, D. E., 5544
van Dam-Mieras, M. C. E., 3128
VanDenbos, G., 4111
Vandenheede, J. R., 4850
Vandenheuvel, W. J. A., 302
Van der Weyden, M. B., 5448
Van de Sande, J. H., 565, 571, 587, 599, 624, 667
Vande Zande, H., 1326
van Golde, L. M. G., 4208
Van Obberghen, E., 6844
Varricchio, F., 3122
Vaughan, M., 4490, 6205
Vazquez, D., 1718
Veis, A., 7137
Verger, R., 3128
Viale, R. O., 193
Vickery, L. E., 7907
Vinten, J., 794
Violand, B. N., 3906
Vitello, L. B., 1131
Vlahcevic Z. R., 6308
Vogel, T., 2334, 7363
Voll, R. J., 2983
Volpin, D., 6871
von Döbeln, U., 3616
von Hippel, P. H., 7198, 7215, 7229, 7240
Vorhaben, J. E., 781

W

Wada, H. G., 4139
Wagner, H., Jr., 4365
Wagner, P. D., 5424
Wahba, A. J., 137
Wajcman, H., 5875
Wakil, S. J., 2487, 3194, 6662
Walgate, J., 4803
Walker, J. B., 2049
Wallach, D., 5802
Wallach, D. F. H., 7413
Wallick, E. T., 4794
Wallin, B. K., 4901
Walsh, C. T., 329
Walsh, M., 4495
Walter, R., 7593
Wan, C. C., 4384
Wang, C. C., 302
Wang, H.-P., 6068
Wang, J. H., 4495, 4521
Wang, J. L., 4622
Wang, S., 1471
Ward, D. C., 4833, 4839
Ward, D. N., 308, 316
Ward, G. K., 4001
Warner, J. R., 1799, 2898
Warren, C. D., 6465
Warren, J. C., 3700
Watanabe, K., 2385
Watanabe, T., 182
Watson, J. A., 1745
Watt, K. W. K., 4254
Watterson, D. M., 4501
Weakley, R., 2839
Weber, K., 2744, 3386
Weber, L. A., 5657
Weber, M. J., 7950
Webster, L. T., Jr., 3352
Webster, R. E., 7739
Wedding, R. T., 2023
Weddle, C. C., 4973
Wedler, F. C., 7530
Weigent, D. A., 6974
Weinberg, F., 1464
Weiner, H., 3853
Weinfeld, H., 4372
Weintraub, B. D., 1723
Weise, M. J., 6667
Weiser, E., 5703
Weiss, B., 1896
Weiss, G. B., 3425
Weiss, L. J., 1663
Weiss, S. B., 536
Weissbach, H., 5516
Weissman, S. M., 3122, 3480
Wells, R. D., 150
Werkheiser, W. C., 3569
West, S. B., 1385, 4659
Westhead, E. W., 5600
Wetlaufer, D. B., 3147, 3154
Wharton, D. C., 2861
Whayne, T. F., Jr., 4914
Wheeler, F. B., 2539
Wheeler, M. P., 6724
Whelan, W. J., 2363
White, A. A., 7304
White, H., 1688, 1700, 1708
White, S. L., 4763
Whiting, M. J., 1340, 1347
Whitney, P. L., 3862
Widnell, C. C., 1035 7821
Wiklund, R. A., 1221, 3037
Wikvall, K., 3495
Wilbur, D. J., 5187
Wilcox, K. W., 6122, 6127
Wiley, M. H., 2716
Wilkins, R. G., 2339
Williams, A., 6053
Williams, C. H., Jr., 3553, 3956, 7726
Williams, L. T., 3096 6915
Williams, M. C., 5657
Wilson, E. M., 5620
Wilson, G. N., 3425
Wilson, J. D., 5895
Wilson, K. J., 801
Winberry, L., 3539
Winkelhake, J. L., 1074
Winkler, H. H., 389
Winter, D. B., 2094, 2105
Wittebort, R. J., 477
Wittel, F. P., 898
Wittenberg, B. A., 6090
Wittenberg, J. B., 6090
Wohl, H., 324
Wolberg, G., 6757
Wold, F., 6016
Woledge, R. C., 7499
Wolf, G., 6465
Wolfenstein-Todel, C., 6439
Wolff, D. J., 4744
Wolk, C. P., 2967, 5027
Wolosiuk, R. A., 6456
Wong, C., 7675
Wong, L.-J., 5431
Woo, S. L. C., 3868
Wood, A. W., 4882
Wood, H. G., 7021, 7920
Wood, T. G., 5512
Woodard, C. J., 1239
Woodside, W. F., 13
Wool, I. G., 1500, 1808, 1926, 4666, 7940
Wright, B. E., 1253, 1258
Wu, S.-C. G., 6529
Wuu, T.-C., 2735
Wyngaarden, J. B., 2234
Wynns, G. C., 4428
Wysocki, J. R., 1941

Y

Yagi, H., 4882
Yamada, K., 2487
Yamakura, F., 4792
Yamamoto, S., 2629, 4095, 4102
Yamamura, H., 1481
Yanagawa, H., 3637
Yang, C.-H., 1531
Yang, Y. H. J., 4389
Yang, Y.-Z., 7474
Yanoff, M., 730
Yasukochi, Y., 5337
Yasumura, M., 6259
Yavin, E., 1392
Yazawa, M., 3021
Yeagle, P. L., 2110
Yeh, C.-K., 5703
Yeh, M.-F., 2134
Yeh, Y., 2290, 3033
Yim, J. J., 5087
Yip, B., 3563
Yip, B. P., 7157
Yohe, H. C., 7083
Yonetani, T., 236
Yoneyama, Y., 7494
Younathan, E. S., 2983
Young, D. A., 7295
Young, M., 459
Young, M. E. M., 5860
Young, N. S., 1290, 6431
Young, P. L., 6901
Young, R. A., 2740
Yount, R. G., 5424
Yu, B. P., 2037
Yu, C. A., 2094
Yu, L., 2094
Yu, R. K., 198
Yun, S.-L., 124

Z

Zabel, D., 5866
Zablocki, W., 1653
Zakrzewski, S. F., 3569
Zalkin, H., 941, 3294, 3300
Zelenka, P., 4294
Zenser, T. V., 7431
Zerwekh, J. E., 2388
Ziegler, A., 5391
Zimmerman, D. H., 2469
Zimmerman, S. B., 1767
Zimmerman, T. P., 6757
Zimmerman, W. F., 4700
Zinder, O., 2179, 4544
Zinker, S., 1799
Zitomer, R. S., 6320
Zubrzycka, E., 7733

A

ABBREVIATIONS
INSTRUCTIONS TO AUTHORS 1
RECOMMENDATIONS FOR PRESENTING BIOCHEMICAL EQUILIBRIUM DATA 6879
ABRIN
ABRIN AND RICIN BINDING KINETICS WITH HUMAN CELLS 3977
STEPS IN INHIBITION OF PROTEIN SYNTHESIS BY ABRIN AND RICIN 3985
ACANTHAMOEBA CASTELLANII
COMPOSITION AND STRUCTURE OF LIPOPHOSPHONOGLYCAN 2976
PURIFICATION AND CHARACTERIZATION OF ACANTHAMOEBA ACTIN 4778
POLYMERIZATION OF ACANTHAMOEBA ACTIN 7474
ACETALDEHYDE
HORSE LIVER ALDEHYDE DEHYDROGENASE ISOZYMES 236
HEPATIC MITOCHONDRIAL ACETALDEHYDE OXIDATION 4988
ETHANOL OXIDATION BY RAT HEPATOCELLULAR CARCINOMA 5366
ACETATE
STOICHIOMETRY OF PROTON EJECTION DUFING CALCIUM UPTAKE 968
LEUCINE 2,3-AMINOMUTASE, AN ENZYME OF LEUCINE CATABOLISM 1859
REACTION MECHANISM FOR O-ACETYLSERINE SULFHYDRYLASE 2023
LEGHEMOGLOBIN AND ITS COMPLEXES WITH NICOTINATE AND ACETATE 6090
ACETATE KINASE
REGULATION OF ACETATE KINASE BY SUCCINATE AND SUBSTRATES 3117
KINETIC STUDY OF ESCHERICHIA COLI ACETATE KINASE MECHANISM 6775
ACETOACETYL CO A
MECHANISM OF SUCCINYL-CO A 3-KETOACID COENZYME A TRANSFERASE 1688
INACTIVATION OF COENZYME A TRANSFERASE BY THIOL REAGENTS 1700
ACETYL CO A
ACETYLTRANSFERASE FROM C. BOGORIENSIS 424
CO A/AC-CO A,NAD/NADH RATIOS + HEART PYRUVATE DEHYDROGENASE 5483
ACETYL CO A CARBOXYLASE
CIRCULAR DICHROISM OF BIOTIN CARBOXYL CARRIER PROTEIN 2063
LIPID ACCUMULATION IN YEAST DUE TO INOSITOL DEFICIENCY 5759
LIPOGENIC DIFFERENTIATION IN CELL CULTURE 6462
ACETYL PHOSPHATASE
ENZYMOLOGICAL STUDIES ON HEREDITARY AVIAN DYSTROPHY 4468
ACETYLATION
SEE ALSO ACETYL CO A
ALPHA-N-ACETYLATION OF EHRLICH ASCITES PROTEINS 1009
CIRCULAR DICHROISM OF BOWMAN-BIRK TRYPSIN INHIBITOR 3411
ACETYLCHOLINE
AFFINITY PARTITIONING OF MEMBRANES 858
CHOLINE UPTAKE AND METABOLISM IN BRAIN CELLS IN CULTURE 1392
MUSCARINIC ACETYLCHOLINE RECEPTOP FROM RAT BRAIN 1543
GLUCOSE UTILIZATION AND NAD/NADH POTENTIALS 4127
PURIFIED NICOTINIC ACETYLCHOLINE RECEPTOR FROM BRAIN 6327
EQUILIBRIUM CONSTANT OF PHOSPHORYLCHOLINE HYDROLYSIS 7162
NEUROTOXIC PHOSPHOLIPASE A SEQUENCE 7343
ACETYLESTERASE
ACETYL- AND CARBOXYLESTERASES FROM C. BOGORIENSIS 431
ACETYLGALACTOSAMINE
SEE ALSO GLYCOPROTEINS
BIOSYNTHESIS OF CHONDROITIN SULFATE 3942
ACETYLGALACTOSAMINYLTRANSFERASE
BLOOD GROUP ACTIVE GLYCOPROTEIN OF ERYTHROCYTE MEMBRANE 3610
ACETYLGLUCOSAMINE
SEE ALSO GLYCOPROTEINS
PROTEIN BINDING TO GALACTOSYLTRANSFERASE 3653
HEN OVIDUCT ENDO-BETA-N-ACETYLGLUCOSAMINIDASE 6537
ACETYLGLUCOSAMINYLTRANSFERASE
N-ACETYLGLUCOSAMINYLTRANSFERASE IN PEPTIDOGLYCAN SYNTHESIS 6154
ACETYLMURAMYL-L-ALANINE HYDROLASE
PURIFICATION OF THE PNEUMOCOCCAL AUTOLYSIN (AMIDASE) 4199
ACETYLNEURAMINIC ACID
SEE ALSO NEURAMINIC ACID, N-ACETYL
TSH BINDING TO BEEF THYROID MEMBRANES 4247
ACETYLPHOSPHATE
REGULATION OF ACETATE KINASE BY SUCCINATE AND SUBSTRATES 3117
ACETYLSALICYLATE
MECHANISM OF THROMBIN-MEDIATED BURST IN O2 USE BY PLATELETS 2536
PURIFICATION OF PROSTAGLANDIN-FORMING CYCLOOXYGENASE 5575
ACETYLSERINE SULFHYDRASE
STEREOCHEMISTRY OF CYSTEINE FORMATION 5478
ACETYLSERINE SULFHYDRYLASE
REACTION MECHANISM FOR O-ACETYLSERINE SULFHYDRYLASE 2023
ACETYLTRANSFERASE
ACETYLTRANSFERASE FROM C. BOGORIENSIS 424
ACINAR CELLS
CYCLIC AMP IN PANCREATIC ACINAR CELLS 4635
ACONITASE
STABILITY AND ACTIVITY OF ISOPROPYLMALATE ISOMERASE 3545
ACONITINE
PURIFICATION OF A TOXIC PROTEIN FROM SCORPION VENOM 5528
ACP
SEE ALSO ACYL CARRIER PROTEIN
ACRIFLAVIN
YEAST CYTOCHROME C1 1997
ACTH
SEE ALSO ADRENOCORTICOTROPIC HORMONE
ACTIN
CARDIAC TROPONIN 866
SEPARATION OF DIFFERENT MYOSINS BY ATP AND ACTIN COLUMNS 3972
PURIFICATION AND CHARACTERIZATION OF ACANTHAMOEBA ACTIN 4778
MYOSIN LIGHT CHAIN MODIFICATION+ EFFECT ON ACTIN BINDING 5424
INTERACTIONS OF ACTIN AND NUCLEOTIDE BINDING SITES ON MYOSIN 6170
PURIFICATON AND PROPERTIES OF FILAMIN 6562
POLYMERIZATION OF ACANTHAMOEBA ACTIN 7474
ACTININ
PROPERTIES OF PURIFIED ALPHA ACTININ 6860
ACTINOMYCIN D
SEE ALSO RNA, MESSENGER
PROTEIN KINASES DUPING THE CELL CYCLE 3313
ACTIVE SITE
SEE ALSO ENZYMES, ACTIVE SITE
SEE ALSO SPECIFIC ENZYMES
ACTIVE SITE-LABELLING
ESSENTIAL LYSYL RESIDUE IN ALDOLASE 3057
LIPOAMIDE DEHYDROGENASE ACTIVE SITE CYSTEINE REACTIVITIES 3553
ACTOMYOSIN
SIMILARITIES BETWEEN CALCIUM-DEPENDENT REGULATORY PROTEINS 4501
SQUID BRAIN MYOSIN 7682
ACYL CARRIER PROTEIN
ACP METABOLISM AND REGULATION IN LACTOBACILLUS 4706
ACYL CO A
SEE ALSO ACETYL CO A
ACYL SELECTIVITIES OF ACYLTRANSFERASES IN E. COLI 2487
ACYL DIHYDROXYACETONE PHOSPHATE
ACYL DIHYDROXYACETONE PHOSPHATE PATHWAY IN BHK FIBROBLASTS 5149
ACYLATION
ACYLATION OF SUBTILISIN CARLSBERG BY PHENYL ESTERS 1006
PEPTIDYL TRANSFER RNA DISSOCIATES FROM RIBOSOMES OF E. COLI 3392
ACYLGLYCEROL HYDROLASE
MONOACYLGLYCEROL-HYDROLYZING ENZYME OF RAT ADIPOSE TISSUE 813
ACYLGLYCERYLPHOSPHATE
LYSOSOMAL BIS(MONOACYLGLYCERYL)P SYNTHESIS 4596
ACYLTRANSFERASES
ACYL SELECTIVITIES OF ACYLTRANSFERASES IN E. COLI 2487
GLYCINE + L-GLUTAMINE SPECIFIC ACYL-CO A NIACYLTRANSFERASES 3352
DIACYLGLYCEROL ACYLTRANSFERASE ACTIVITY OF FAT CELLS 4537
ADENINE
SUBUNIT STFUCTURE AND CHEMICAL COMPOSITION OF CITRATE LYASE 2911
COMPARATIVE BINDING AND RATE STUDY OF AMP NUCLEOSIDASE 3417
REGULATION OF DE NOVO PURINE SYNTHESIS IN HUMAN LYMPHOBLASTS 7348
ADENINE NUCLEOTIDE TRANSLOCASE
ADP-ATP TRANSPORT IN RICKETTSIAE 389
ADENINE NUCLEOTIDES
SEE ALSO ADP
SEE ALSO AMP
SEE ALSO ATP
ADENOSINE
NUCLFOSIDE PHOSPHOTRANSFERASE FROM ERWINIA HERBICOLA 2330
REGULATION OF NEUROBLASTOMA ADENYLATE CYCLASE 3399
C6 CELL ECTO-5-PRIME-NUCLEOTIDASE 3900
REGULATION OF ADENYLATE CYCLASE BY ADENOSINE 4239
INHIBITION OF PP-RIBOSE-P-SYNTHESIS BY PURINE NUCLEOSIDES 5839
GLUCOCORTICOID ACTION ON ATP PRODUCTION IN THYMIC LYMPHOCYTE 7295
ADENOSINE DEAMINASE
AMMONIA PRODUCTION IN BRAIN 485
ENZYMES INVOLVED IN VESICLE TRANSPORT 1181
PURIFICATION OF HUMAN ERYTHROCYTE ADENOSINE DEAMINASE 4826
HUMAN ADENOSINE DEAMINASE 5448
ADENOSINE DIPHOSPHATE
SEE ALSO ADP
ADENOSINE MONOPHOSPHATE
SEE ALSO AMP
ADENOSINE TRIPHOSPHATASE
SEE ALSO ATPASE
ADENOSINE TRIPHOSPHATE
SEE ALSO ATP
ADENOSINE 3,5-MONOPHOSPHATE
SEE ALSO CYCLIC AMP
ADENOSYLCOBALAMIN
SEE ALSO VITAMIN B12
ADENOSYLHOMOCYSTEINASE
MECHANISM OF ACTION OF S-ADENOSYLHOMOCYSTEINASE 5817
ADENOSYLHOMOCYSTEINE
MECHANISM OF ACTION OF S-ADENOSYLHOMOCYSTEINASE 5817
ADENOSYLMETHIONINE
SEE ALSO METHYLATION
LEUCINE 2,3-AMINOMUTASE, AN ENZYME OF LEUCINE CATABOLISM 1859
CORRECTION TO MARTIN ET AL VOL. 250 (1975) P. 9322 2539
MESSENGER RNA (GUANINE-7-)-METHYLTRANSFERASE OF HELA CELLS 5283
FOLATE-DEPENDENT RIBOTHYMIDINE BIOSYNTHESIS 7649
ADENYLATE CYCLASE
SEE ALSO CYCLIC AMP
PROPERTIES OF SYNTHETIC PARATHYROID HORMONE ANALOGUES 159
ADENINE NUCLEOTIDE LEVELS OF SPERM 787
REGULATION OF CARBOHYDRATE METABOLISM IN BACTERIA 883
BETA-ADRENERGIC RECEPTORS OF CULTURED CELLS 1221
BETA-ADRENERGIC RECEPTOR INTERACTIONS 1239
ADENYLATE CYCLASE ACTIVITY IN SECRETORY VESICLES 2179
SOLUBLE BETA-ADRENERGIC RECEPTORS 2374
REGULATION OF ADENYLATE CYCLASE BY PTS ENZYMES II 2462
DESENSITIZATION BY LH OF LH-RESPONSIVE ADENYLYL CYCLASE 2653
CYCLIC GMP, CA2-PLUS AND GLYCOGENOLYSIS BY LIVER CELLS 2987
PGE1 RECEPTORS AND ADENYLATE CYCLASE IN CULTURED CELLS 3037
ADIPOCYTE BETA-ADRENERGIC RECEPTORS 3096
REGULATION OF NEUROBLASTOMA ADENYLATE CYCLASE 3399
GUANYLATE CYCLASE PURIFICATION 4071
CYCLIC 3-PRIME 5-PRIME-NUCLEOTIDE PHOSPHODIESTERASE 4193
REGULATION OF ADENYLATE CYCLASE BY ADENOSINE 4239
NUCLEOTIDES REGULATE BETA-ADRENERGIC RECEPTORS 4686
REGULATION OF ADENYLATE CYCLASE BY A CALCIUM-BINDING PROTEIN 4744
HORMONE-SENSITIVE RESEALED GHOSTS 4930
NEGATIVE COOPERATIVITY AMONG BETA-ADRENERGIC RECEPTORS 5007
CORRECTION TO BOCKAERT ET AL VOL. 251 (1976) P. 2653 5429
REGULATION OF CARBOHYDRATE METABOLISM IN ESCHERICHIA COLI 5522
TWO SOLUBLE FORMS OF ADENYLATE CYCLASE 5831
ACTIVATION AND INHIBITION OF ADENYLATE CYCLASE BY FLUORIDE 6205
TIME DEPENDENT CHANGES IN ADENYLATE CYCLASE 6568
EFFECTS OF SPIN-LABELED STEARATES ON ADENYLATE CYCLASE 7431
REFRACTORINESS BY ISOPROTERENOL IN MUTANT CELLS 7572
GONADOTROPIN INDUCED DESENSITIZATION OF ADENYLATE CYCLASE 7729
SOLUBILIZATION NORMALIZES ADENYLATE CYCLASE ACTIVITY 7958
SOLUBILIZATION NORMALIZES ADENYLATE CYCLASE ACTIVITY 7958
ADENYLATE DEAMINASE
AMMONIA PRODUCTION IN BRAIN 485
SUBUNIT STRUCTURE OF AMP-DEAMINASE 1847
ADENYLATE ENERGY CHARGE
ADENINE NUCLEOTIDE LEVELS OF SPERM 787
RABBIT SKELETAL MUSCLE GLYCOGEN SYNTHASE II 1920
REGULATION OF ESCHERICHIA COLI GLUTAMINASE B. III 3463
GLUCOSE UTILIZATION AND NAD/NADH POTENTIALS 4127
GLUCOCORTICOID ACTION ON ATP PRODUCTION IN THYMIC LYMPHOCYTE 7295
ADENYLATE KINASE
NUCLEOTIDE METABOLIZING ENZYMES IN CHLAMYDOMONAS FLAGELLA 182
AMMONIA PRODUCTION IN BRAIN 485
TYROSINE RESIDUES IN PORCINE MUSCLE ADENYLATE KINASE 3621
SYNTHESIS OF ATP BY ISOLATED CF1 VIA TRANSPHOSPHORYLATION 7796
SQUID MANTLE MUSCLE ADENYLATE KINASE 7818
ADENYLIC ACID
SEE ALSO AMP
ADENYLOSUCCINASE
AMMONIA PRODUCTION IN BRAIN 485
ADENYLSUCCINATE SYNTHETASE
AMMONIA PRODUCTION IN BRAIN 485
ADENYLYL IMIDODIPHOSPHATE
SEE ALSO AMP-P(NH)P
SEE ALSO AMP(NH)PP
SEE ALSO APP(NH)P
REGULATION OF NEUROBLASTOMA ADENYLATE CYCLASE 3399
ADIPOCYTES
SEE ALSO FAT CELLS
ADIPOSE TISSUE
SEE ALSO FAT CELLS
ADP
ADP-ATP TRANSPORT IN RICKETTSIAE 389
CORRECTION TO GARRETT + PENEFSKY VOL. 250 (1975) P.6648 1846
RABBIT SKELETAL MUSCLE GLYCOGEN SYNTHASE II 1920
THE MNADP COMPLEX WITH MYOSIN SUBFRAGMENT 1 1975
A KINETIC STUDY OF GLUCOSE 6-PHOSPHATE DEHYDROGENASE 2258
ADENINE NUCLEOTIDE TRANSPORT 2446

STRUCTURE OF CREATINE KINASE-SUBSTRATE COMPLEXES 2777
REGULATION OF ESCHERICHIA COLI GLUTAMINASE B. III 3463
BINDING OF SUBSTRATES TO RIBONUCLEOTIDE REDUCTASE 3616
ON THE MECHANISM OF FORMYLTETRAHYDROFOLATE SYNTHETASE 4159
CHLOROPLAST PHOSPHORYLATION 4165
HEPATIC MITOCHONDRIAL ACETALDEHYDE OXIDATION 4908
CO A/AC-CO A,NAD/NADH RATIOS + HEART PYRUVATE DEHYDROGENASE 5483
GLUTAMINE SYNTHETASE EXCHANGES 5556
INTERACTIONS OF ACTIN AND NUCLEOTIDE BINDING SITES ON MYOSIN 6170
POLYRIBOADENYLATE POLYMERASE OF ESCHERICHIA COLI 6274
NUCLEOTIDE EXCHANGE INTO COUPLING FACTOR 1 6874
PHOSPHOROUS MAGNETIC RESONANCE STUDY OF ARGININE KINASE 6981
CALORIMETRIC STUDIES OF THE INTERACTION OF MYOSIN WITH ADP 7499
SYNTHESIS OF ATP BY ISOLATED CF1 VIA TRANSPHOSPHORYLATION 7796

ADP-GLUCOSE PYROPHOSPHORYLASE
E. COLI ADP-GLUCOSE PYROPHOSPHORYLASE 7880
ACTIVATOR-INDUCED OLIGOMERIZATION OF ADP-GLUCOSE SYNTHASE 7886

ADP-GLUCOSE SYNTHASE
ACTIVATOR-INDUCED OLIGOMERIZATION OF ADP-GLUCOSE SYNTHASE 7886

ADP-RIBOSYLATION
INTERACTIONS OF ADPRIB-EF-2 WITH RIBOSOMES 6544

ADRENALS
SEE ALSO CORTICOSTEROIDS
TROPONIN-C-LIKE PROTEIN IN BOVINE ADRENAL MEDULLA 1643
ADRENAL CLEAVAGE OF A 20-PHENYL ANALOG OF CHOLESTEROL 2487
ADENYLATE CYCLASE ACTIVITY IN SECRETORY VESICLES 2179
INTERNAL PH OF CHROMAFFIN VESICLES 2189
RESPONSE TO ACTH ANALOGS OF ADRENAL MEMBRANES AND CELLS 3576
LIGAND BINDING TO TWO ADRENAL MITOCHONDRIAL P450 CYTOCHROMES 3706
ADRENODOXIN REDUCTASE INTERACTION WITH PYRIDINE NUCLEOTIDES 4299
ADRENAL MITOCHONDRIAL P 450 6068
CA2+-INDUCED CONFORMATIONAL CHANGE IN ADRENAL MEDULLA TN-C 6315
TEMPERATURE EFFECTS ON ADRENAL CORTICAL CYT P-450SCC 7120
STEROIDOGENESIS. C-17,20 AND C-20, 22 SIDE CHAIN CLEAVAGE 7336
ADRENODOXIN REDUCTASE ADRENODOXIN 1 1 COMPLEX+ PROPERTIES 7545

ADRENERGIC RECEPTORS
SEE ALSO CATECHOLAMINES
SEE ALSO RECEPTORS, HORMONAL
BETA-ADRENERGIC RECEPTORS OF CULTURED CELLS 1221
IODINATED BETA-ADRENERGIC BLOCKER 1232
BETA-ADRENERGIC RECEPTOR INTERACTIONS 1239
NUCLEOTIDES REGULATE BETA-ADRENERGIC RECEPTORS 4686
IDENTIFICATION OF ALPHA-ADRENERGIC RECEPTORS 6915

ADRENOCORTICOTROPIC HORMONE
RESPONSE TO ACTH ANALOGS OF ADRENAL MEMBRANES AND CELLS 3576
BIOSYNTHESIS OF ACTH IN MOUSE PITUITARY TUMOR CELLS 4115
HIGH MOLECULAR WEIGHT FORMS OF ACTH ARE GLYCOPROTEINS 4121
TEMPERATURE EFFECTS ON ADRENAL CORTICAL CYT P-450SCC 7120

ADRENODOXIN
ISOLATION OF CHICK RENAL MITOCHONDRIAL FERREDOXIN 3933
ADRENODOXIN REDUCTASE INTERACTION WITH PYRIDINE NUCLEOTIDES 4299
ADRENODOXIN REDUCTASE ADRENODOXIN 1 1 COMPLEX+ PROPERTIES 7545

ADRENODOXIN REDUCTASE
ADRENODOXIN REDUCTASE INTERACTION WITH PYRIDINE NUCLEOTIDES 4299
ADRENODOXIN REDUCTASE ADRENODOXIN 1 1 COMPLEX+ PROPERTIES 7545

AFFINITY CHROMATOGRAPHY
SEE ALSO CHROMATOGRAPHY, AFFINITY

AFFINITY LABELING
HIGH AFFINITY BILIRUBIN BINDING SITE IN HUMAN SERUM ALBUMIN 801
INACTIVATION OF PHOSPHORYLASE B BY POTASSIUM FERRATE 1553
ESSENTIAL LYSYL RESIDUE IN ALDOLASE 3057
AA SEQUENCE OF ACTIVE SITE PEPTIDES FROM SUCRASE-ISOMALTASE 3256
GLUTAMINE-DEPENDENT GLUTAMATE SYNTHASE 3294
AFFINITY LABELING OF PHOSPHOGLYCERATE MUTASE 4565

AFFINITY PARTITIONING
AFFINITY PARTITIONING OF MEMBRANES 858

AGARICUS BISPORUS
SURFACE ALTERATIONS IN PERIODATE-OXIDIZED LYMPHOCYTES 1864

AGAROSE
HYDROPHOBIC INTERACTION OF INTERFERONS WITH HYDROCARBONS 7620

AGGLUTININS
SEE ALSO CONCANAVALIN A
ABRIN AND RICIN BINDING KINETICS WITH HUMAN CELLS 3977
OPPOSING EFFECTS OF LECTINS ON LYMPHOCYTE ACTIVATION 4017

AGGREGATION ENERGY
STRUCTURING OF GANGLIOSIDE AGGREGATES 7083

AGING
SEE ALSO DEVELOPMENT
PROTEIN DEGRADATION IN HUMAN FIBROBLASTS 3521

AH LOCUS
GENETICS OF METYRAPONE AND ETHYL ISOCYANIDE BINDING TO P 450 5397

ALANINE
BIOCHEMISTRY OF TASTE. STIMULUS BINDING TO RECEPTORS 88
AMINO ACID RELEASE IN SKELETAL MUSCLE 826
AMINO ACID RELEASE IN SKELETAL MUSCLE 836
AMINO ACID RELEASE IN SKELETAL MUSCLE 844
AMINO ACID RELEASE IN SKELETAL MUSCLE 851
PMR STUDIES OF THE GLUTAMATE-ALANINE TRANSAMINASE REACTION 1688
ELECTRONIC STRUCTURE AND BONDING IN AMINO ACIDS 5992
C13 NMR STUDY-NONENZYMATIC REACTIONS OF PLP WITH AMINO ACIDS 7661

ALANINE (IN PROTEINS)
ALPHA-N-ACETYLATION OF EHRLICH ASCITES PROTEINS 1009
SYNTHESIS OF C. ACIDI-URICI FERREDOXIN DERIVATIVES 1675
MIDPOINT REDUCTION POTENTIAL OF C. ACIDI-URICI FERREDOXIN 1683

ALANINE-(D) CARBOXYPEPTIDASE
PURIFICATION OF D-ALANINE CARBOXYPEPTIDASES I FROM E. COLI 414
DEGRADATION OF PENILILLIN G BY D-ALANINE CARBOXYPEPTIDASE 7947

ALBUMIN
HIGH AFFINITY BILIRUBIN BINDING SITE IN HUMAN SERUM ALBUMIN 801
SERUM ALBUMIN IS ESSENTIAL FOR LYMPHOCYTE GROWTH 987
PROTEIN DEGRADATION IN REGENERATING LIVER 2891
CRYSTALLOGRAPHY OF HUMAN ALBUMIN 3191
EFFECT OF HYPOPHYSECTOMY ON ALBUMIN SYNTHESIS 3768
REFOLDING OF REDUCED BOVINE SERUM ALBUMIN 4603
INDEPENDENT REFOLDING OF DOMAINS OF SERUM ALBUMIN 4689
ANTIGENIC STRUCTURE OF SERUM ALBUMIN 4616
ISOLATION OF RAT LIVER ALBUMIN MESSENGER RNA 7461

ALCOHOL
SEE ALSO ETHANOL

ALCOHOL DEHYDROGENASE
HYDROGEN EXCHANGE IN REDUCED PYRIDINE NUCLEOTIDES 1785
ETHANOL OXIDATION BY RAT HEPATOCELLULAR CARCINOMA 5366

ALDEHYDE
RATE-LIMITING STEPS FOR ALDEHYDE DEHYDROGENASE REACTIONS 3853

ALDEHYDE DEHYDROGENASE
HORSE LIVER ALDEHYDE DEHYDROGENASE ISOZYMES 236
RAT LIVER MITOCHONDRIAL ALDEHYDE DEHYDROGENASE 1571
RATE-LIMITING STEPS FOR ALDEHYDE DEHYDROGENASE REACTIONS 3853
HEPATIC MITOCHONDRIAL ACETALDEHYDE OXIDATION 4908

ALDITOL
BOVINE LENS ALDOSE REDUCTASE, PHYSICAL, KINETIC PROPERTIES 2696

ALDOLASE
ESSENTIAL LYSYL RESIDUE IN ALDOLASE 3057
FRUCTOSE 6-SULFATE AS A SUBSTRATE OF PHOSPHOFRUCTOKINASE 3664
IN VITRO SYNTHESIS OF ALDOLASE TETRAMERS 4355

ALDOSE REDUCTASE
BOVINE LENS ALDOSE REDUCTASE, PHYSICAL, KINETIC PROPERTIES 2696

ALGAE
SEE ALSO SPECIFIC SPECIES
CLEAVAGE OF PHYCOCYANORILIN FROM C-PHYCOCYANIN 2485
METABOLISM OF RADIOACTIVE DINITROGEN BY A CYANOBACTERIUM 5827

ALKALINE PHOSPHATASE
SEE ALSO PHOSPHATASE

ALKYLAMINO-AMP
8-ALKYLAMINOADENYL NUCLEOTIDES AND DEHYDROGENASE BINDING 6791

ALKYLATION
ALKYLATION OF METHIONINE IN FUMARASE BY BENZYL BROMIDE 5711

ALLANTOIN
RENAL METABOLISM OF EXOGENOUS CYCLIC AMP AND CYCLIC GMP 4958

ALLOPHANATE HYDROLASE
CYCLOHEXIMIDE INHIBITION OF PROTEIN SYNTHESIS INITIATION 7278

ALLOSTERISM
SEE ALSO ENZYMES, REGULATION
SEE ALSO HEMOGLOBIN
RESONANCES OF 13-CO2 CARBAMINO ADDUCTS OF HEMOGLOBIN 477
ALLOSTERIC TRANSITIONS IN COBALT HEMOGLOBINS 1670
ROOT EFFECT HEMOGLOBIN OF A MARINE FISH 1871
LIGAND-INDUCED ALTERATIONS IN AMIDOPHOSPHORIBOSYLTRANSFERASE 2234
NADH ACTIVATED PHOSPHOENOLPYRUVATE CARBOXYLASE 2754
COMPARATIVE BINDING AND RATE STUDY OF AMP NUCLEOSIDASE 3417
BINDING OF SUBSTRATES TO RIBONUCLEOTIDE REDUCTASE 3616
HORMONE BINDING EFFECTS ON NEUROPHYSIN QUATERNARY STRUCTURE 3965
HUMAN ERYTHROCYTE PYRIMIDINE NUCLEOSIDE MONOPHOSPHATE KINASE 4179
SIZE-DEPENDENT EFFECTS OF MONOVALENT CATIONS 4315
BIOCHEMICAL PROPERTIES OF IODO-AMINO-DEOXY UTP 4839
ALLOSTERIC REGULATION OF HEXOKINASE C FROM AMPHIBIAN LIVER 5635
PURIFICATION OF COMPLEX U UMP SYNTHESIS FROM OROTATE OR OMP 5589
LIGAND INDUCED STRUCTURAL CHANGES IN PHOSPHOFRUCTOKINASE 5637
PH INDUCED REGULATORY KINETICS OF PHOSPHOFRUCTOKINASE 5644
PHOSPHOFRUCTOKINASE REGULATION IN A THYROID TUMOR 6244
STUDIES ON THE FOURTH STEP IN LIGAND BINDING TO HEMOGLOBIN 6692
INTERACTION OF ORGANOPHOSPHATES WITH HEMOGLOBINS 6815
PH-DEPENDENT EFFECTS OF CR(NH3)2ATP ON HEXOKINASE KINETICS 7521
FUNCTIONAL PROPERTIES OF TWO FORMS OF HB PROVIDENCE 7563
BINDING OF INOSITOL HEXAPHOSPHATE TO DEOXYHEMOGLOBIN 7720

ALLOTYPES
SEE ALSO IMMUNOCHEMISTRY
A3 IMMUNOPEPTIDE 6798

ALLOXAN
INSULIN EFFECTS ON HEART GLYCOGEN SYNTHASE PHOSPHATASE 6724

ALPHA-2-MACROGLOBULIN
ACTION OF FIBRIN-STABILIZING FACTOR IN CLOTTING PLASMA 1639

ALPRENOLOL
SOLUBLE BETA-ADRENERGIC RECEPTORS 2374

AMANITIN
SEE ALSO RNA, POLYMERASE
SUBUNIT STRUCTURE OF MOUSE PLASMACYTOMA RNA POLYMERASE III 1864
STRUCTURAL STUDIES ON YEAST RNA POLYMERASES 1712
ALPHA-AMANITIN-RESISTANT RNA POLYMERASE II 2729
SUBUNIT STRUCTURE OF BOMBYX MORI RNA POLYMERASE III 3794
ESTRADIOL EFFECT ON SOLUBILIZED UTERINE RNA POLYMERASES 4843

AMIDASE
TRH METABOLISM BY HAMSTER HYPOTHALAMUS 3229

AMIDINATION
CARBONIC ANHYDRASE C SEQUENCE 5457
ENERGY-DEPENDENT AMINO GROUP EXPOSURE ON CHLOROPLAST CF1 7168

AMIDOPHOSPHORIBOSYLTRANSFERASE
LIGAND-INDUCED ALTERATIONS IN AMIDOPHOSPHORIBOSYLTRANSFERASE 2234

AMINES
SEE ALSO POLYAMINES
SEE ALSO SPERMINE

AMINO ACID OXIDASE
STEREOSPECIFICITY IN SPHINGANINE 1-PHOSPHATE LYASE REACTION 4448
NUCLEOPHILIC REACTIONS OF DEAZAFLAVINS 4872
CHLORINATION OF D-AMINO ACID OXIDASE BY N-CHLORO-D-LEUCINE 6150
ENZYMATIC REACTIONS OF METHIONINE SULFOXIMINE 6674

AMINO ACID POOL
VALINE POOL AND PROTEIN SYNTHESIS AND DEGRADATION 4458

AMINO ACIDS
SEE ALSO PROTEIN
SEE ALSO SPECIFIC AMINO ACIDS
SEE ALSO TRANSPORT, AMINO ACIDS
DOCUMENTATION OF PROTEIN SEQUENCES 11
AMINO ACID RELEASE IN SKELETAL MUSCLE 836
AMINO ACID COMPARTMENTATION AND HEPATIC PROTEIN TURNOVER 1375
CORRECTION TO ELSAS ET AL VOL. 250 (1975) P. 9381 2539
ELECTRONIC STRUCTURE AND BONDING IN AMINO ACIDS 5992
C13 NMR STUDY-NONENZYMATIC REACTIONS OF PLP WITH AMINO ACIDS 7661

AMINO ACIDS, ANALOGUES
SEE ALSO TRYPTOPHAN, 4,7O
SEE ALSO TRYPTOPHAN, FLUORO-

AMINO ACIDS, ANALYSIS
COMPLETE AMINO ACID ANALYSIS OF PROTEINS 1936

AMINO ACIDS, UNSATURATED
IRREVERSIBLE INHIBITION OF ASPARTATE AMINOTRANSFERASE 3306

AMINO NUCLEOSIDES
UV SENSITIZATION OF DTMP KINASE BY HALOGENATED ANALOGS 6555

AMINO-2-OXAZOLINE-5-CARBOXYLIC ACID
ENZYMATIC RING HYDROLYSIS OF 5-IODO-5,6-DIHYDROURACIL 6909

AMINO-4-METHOXY-TRANS-3-BUTENOIC ACID
IRREVERSIBLE INHIBITION OF ASPARTATE AMINOTRANSFERASE 3306

AMINO-4-METHYLPENTANOATE
LEUCINE 2,3-AMINOMUTASE, AN ENZYME OF LEUCINE CATABOLISM 1859

AMINOACRIDINE
CHROMAFFIN GRANULE MEMBRANE POTENTIAL 4544

AMINOACYL-TRNA
SEE ALSO PROTEIN, SYNTHESIS IN VITRO
SEE ALSO RNA, TRANSFER
AMINOACYL-TRANSFER RNA CONFORMATION 6730

AMINOACYL-TRNA SYNTHETASE
EFFECT OF METALS ON ESCHERICHIA COLI ARGINYL-TRNA SYNTHETASE 241
REQUIRED THIOL GROUP AND SEQUENCES OF THIOL PEPTIDES 3254
THIOL PEPTIDES OF HUMAN TRYPTOPHANYL-TRNA SYNTHETASE 3261
AMINOACYL TRANSFER RNA SYNTHETASE-TRANSFER RNA COMPLEX 6823
AMINOACYL-TRNA SYNTHETASES THE RATE-DETERMINING STEP 7717

AMINOACYLATION OF TRNA
CONFORMATIONAL CHANGE IN TRNA-PHE UPON AMINOACYLATION 1529

AMINOBUTYRATE
ALPHA-METHYLGLUTARATE 2263
KINETICS OF GAMMA-GLUTAMYL TRANSPEPTIDASE 4736

AMINOISOBUTYRATE
INDUCTION OF TRANSPORT IN CULTURED LIVER CELLS BY INSULIN 3014

AMINO ACID TRANSPORT IN THYMOCYTES 6030
AMINOLEVULINATE
SEE ALSO HEME
AMINOLEVULINIC ACID SYNTHASE OF LIVER 1340
AMINOLEVULINIC ACID SYNTHASE 1347
YEAST CYTOCHROME C1 1991
AMINOLEVULINATE SYNTHETASE
AMINOLEVULINIC ACID SYNTHETASE IN THE HEART 4996
AMINOMETHYLGLUTARATE
ALPHA-METHYLGLUTARATE 2263
AMINOOXYACETATE
REACTIVITY OF PHOSPHOPYRIDOXAL IN CYSTATHIONASE 5267
AMINOPEPTIDASES
LEUCINE AMINOPEPTIDASE. EFFECT OF PH ON BINDING OF METAL ION 53
LEUCINE AMINOPEPTIDASE (BOVINE LENS) COBALT ENZYME 1618
AMINOPROPIONITRILE
ELASTIN BIOSYNTHESIS FROM SOLUBLE ELASTIN IN VITRO 1125
AMINOTRANSFERASES
SEE ALSO SPECIFIC TRANSAMINASE
AROMATIC AMINOTRANSFERASES IN BACILLUS SUBTILIS 6974
AMINOTYROSINE
SYNTHESIS OF C. ACIDI-URICI FERREDOXIN DERIVATIVES 1675
AMMONIA, AMMONIUM ION
AMMONIA PRODUCTION IN BRAIN 485
AVIAN MITOCHONDRIAL GLUTAMINE METABOLISM 781
ELONGATION FACTOR G BINDING TO THE RIBOSOME 1795
GLUTAMINE-DEPENDENT GLUTAMATE SYNTHASE 3294
APOGLUTAMATE SYNTHASE AND GLUTAMATE DEHYDROGENASE 3300
SIZE-DEPENDENT EFFECTS OF MONOVALENT CATIONS 4315
AMOEBA
SEE ALSO SITE 1
AMP
SEE ALSO ADENYLATE ENERGY CHARGE
INACTIVATION OF PHOSPHORYLASE B BY POTASSIUM FERRATE 1553
RABBIT SKELETAL MUSCLE GLYCOGEN SYNTHASE II 1920
LIGAND-INDUCED ALTERATIONS IN AMIDOPHOSPHORIBOSYLTRANSFERASE 2234
NUCLEOSIDE PHOSPHOTRANSFERASE FROM ERWINIA HERBICOLA 2330
TYROSINE RESIDUES IN PORCINE MUSCLE ADENYLATE KINASE 3021
REGULATION OF ESCHERICHIA COLI GLUTAMINASE B. III 3463
C6 CELL ECTO-5-PRIME-NUCLEOTIDASE 3900
SIZE-DEPENDENT EFFECTS OF MONOVALENT CATIONS 4315
NEUROSPORA CRASSA GLUTAMINE SYNTHETASE 4787
LIGAND INDUCED STRUCTURAL CHANGES IN PHOSPHOFRUCTOKINASE 5637
5-NUCLEOTIDASE IN PERFUSED HEART, SKELETAL MUSCLE AND LIVER 6372
CONTROL OF PHOSPHOFRUCTOKINASE FROM SKELETAL MUSCLE 7322
REGULATION OF DE NOVO PURINE SYNTHESIS IN HUMAN LYMPHOBLASTS 7348
SQUID MANTLE MUSCLE ADENYLATE KINASE 7810
AMP-AMINOHYDROLASE
SUBUNIT STRUCTURE OF AMP-DEAMINASE 1847
AMP-DEAMINASE
SUBUNIT STRUCTURE OF AMP-DEAMINASE 1847
AMP-NUCLEOSIDASE
COMPARATIVE BINDING AND RATE STUDY OF AMP NUCLEOSIDASE 3417
AMP-P(NH)P
SEE ALSO APP(NH)P
REGULATION OF NEUROBLASTOMA ADENYLATE CYCLASE 3399
CHROMAFFIN GRANULE MEMBRANE POTENTIAL 4544
MYOSIN LIGHT CHAIN MODIFICATION: EFFECT ON ACTIN BINDING 5424
INTERACTIONS OF ACTIN AND NUCLEOTIDE BINDING SITES ON MYOSIN 6178
AMP, CYCLIC
SEE ALSO CYCLIC AMP
AMP(CH2)PP
TIME DEPENDENT CHANGES IN ADENYLATE CYCLASE 6568
AMPHIBIA
SEE ALSO SPECIES NAME
ANABAENA CYLINDRICA
HETEROCYST AND SPORE POLYSACCHARIDES 2967
METABOLISM OF RADIOACTIVE DINITROGEN BY A CYANOBACTERIUM 5627
ANAEROBIOSIS
YEAST CYTOCHROME C1 1997
ANAS PLATYRHYNCHOS
AVIAN (NA+,K+)ATPASE PURIFICATION AND NH2-TERMINAL SEQUENCE 4365
ANDROGENS
SEE ALSO CHORIONIC GONADOTROPIN
SEE ALSO GONADOTROPIN
KINETIC PROPERTIES OF HUMAN PLACENTAL AROMATASE 1625
ANDROGEN BIOSYNTHESIS FROM C-20 DEOXY-C-21 STEROID 3320
CONTROL OF ALPHA 2U GLOBULIN MRNA BY SEX HORMONES 3594
ANDROGEN RECEPTORS IN RAT BRAIN 4647
BINDING PROPERTIES OF ANDROGEN RECEPTORS 5620
STEROIDOGENESIS. C-17,20 AND C-20, 22 SIDE CHAIN CLEAVAGE 7336
ANGIOTENSIN
BRAIN ANGIOTENSIN RECEPTORS 7423
THE ENDOPEPTIDASE POST-PROLINE CLEAVING ENZYME 7593
ANGIOTENSIN I
HOMOLOGY OF PULMONARY ANGIOTENSIN-CONVERTING ENZYMES 4828
ANGIOTENSIN II
HOMOLOGY OF PULMONARY ANGIOTENSIN-CONVERTING ENZYMES 4828
ANGIOTENSIN-CONVERTING ENZYME
HOMOLOGY OF PULMONARY ANGIOTENSIN-CONVERTING ENZYMES 4828
ANILINE
HYDROXYLASE ACTIVITY OF HEMOGLOBIN 3436
ANILINE-OXYHEMOGLOBIN INTERACTION 3442
ANILINO-1-NAPHTHALENE SULFONATE
PHYSICAL PROPERTIES OF MEMBRANES WITH ALTERED PHOSPHOLIPIDS 6747
ANIONS
METAL(II) ION, ANION EFFECTS ON P-ENOLPYRUVATE CARBOXYKINASE 2916
CATION EFFECTS ON STEADY STATE MITOCHONDRIAL CALCIUM UPTAKE 5251
ANTABUSE
SEE ALSO ETHANOL
ANTARCTIC FISH
RAMAN SPECTRA OF AN ANTIFREEZE GLYCOPROTEIN 2290
ANTHRANALATE SYNTHETASE
A MULTIFUNCTIONAL ENZYME IN TRYPTOPHAN SYNTHESIS IN EUGLENA 7774
ANTHRANILATE SYNTHETASE 941
ANTIBIOTICS
SEE ALSO PENICILLIN
SEE ALSO SPECIFIC ANTIBIOTICS
SEE ALSO STREPTOMYCIN
MODE OF ACTION OF BOTTROMYCIN A2 2299
PEPTIDYL TRANSFER RNA DISSOCIATES FROM RIBOSOMES OF E. COLI 3392
ANTIBODIES
SEE ALSO IMMUNOCHEMISTRY
SEE ALSO IMMUNOGLOBULINS
SEE ALSO IMMUNOPRECIPITATION
AGLYCOSYLANTIBODY SURVIVAL IN THE CIRCULATION 1674
PREPARATION AND ASSAY OF ANTIBODIES TO HEMOGLOBIN S FRAGMENT 1283
PROPERTIES OF ANTIBODIES TO A HEMOGLOBIN S FRAGMENT 1290
DNA-BINDING NON-HISTONE PROTEINS 1471
DIFFERENTIATION OF LYMPHOID CELLS 2469
FLUORESCENT IMMUNOCHEMICAL METHOD EMPLOYING ENERGY TRANSFER 4172
REFOLDING OF REDUCED BOVINE SERUM ALBUMIN 4603
INDEPENDENT REFOLDING OF DOMAINS OF SERUM ALBUMIN 4609
ANTIGENIC STRUCTURE OF SERUM ALBUMIN 4616
HOMOLOGY OF PULMONARY ANGIOTENSIN-CONVERTING ENZYMES 4828
MONOSPECIFIC ANTIBODIES TO SICKLE HEMOGLOBIN BETA CHAINS 6431
ISOLATION OF RAT LIVER ALBUMIN MESSENGER RNA 7461
ANTIENZYME ANTIBODIES
HOMOLOGY OF PULMONARY ANGIOTENSIN-CONVERTING ENZYMES 4828
ANTIFREEZE GLYCOPROTEINS
RAMAN SPECTRA OF AN ANTIFREEZE GLYCOPROTEIN 2290
BORATE INACTIVATION OF ANTIFREEZE GLYCOPROTEIN 3033
ANTIGEN-ANTIBODY COMPLEX
PHENYLALANINE AMMONIA-LYASE INDUCTION PURIFICATION CLEARANCE 4646
ANTIGENS
SEE ALSO IMMUNOCHEMISTRY
CHEMICAL ANALYSES OF HLA-ANTIGENS 4214
HOMOLOGY OF PULMONARY ANGIOTENSIN-CONVERTING ENZYMES 4828
DEACETYLATION ACTIVITY OF SALMONELLA PHAGE G341 5361
CHEMISTRY OF CHICKEN MAJOR HISTOCOMPATIBILITY ANTIGENS 5391
IMMUNOADSORBENT PURIFICATION OF HLA ANTIGEN 5427
A3 IMMUNOPEPTIDE 6798
ANTIMUTATOR
SEE ALSO MUTAGENESIS
ANTIMYCIN
ETHANOL OXIDATION BY RAT HEPATOCELLULAR CARCINOMA 5366
ANTITHROMBIN
SEE ALSO THROMBIN
INHIBITION OF FACTOR XIIA BY ANTITHROMBIN-HEPARIN COFACTOR 6481
ANTITRYPSIN
OLIGOSACCHARIDES IN ALPHA-1-PROTEASE INHIBITOR 471
PLATELET PROTEASE INHIBITORS 4514
COMPARISON OF NORMAL AND Z-VARIANT ALPHA-1-ANTITRYPSINS 4751
AORTA
ELASTIN BIOSYNTHESIS FROM SOLUBLE ELASTIN IN VITRO 1125
APOFERRITIN
SEE ALSO FERRITIN
PROTON INTERACTIONS OF FERRITIN AND APOFERRITIN 6963
APOLIPOPROTEINS
SEE ALSO LIPOPROTEINS
APP(NH)P
SEE ALSO AMP-P(NH)P
CORRECTION TO GARRETT + PENEFSKY VOL. 250 (1975) P.6640 1846
CATALYTIC MECHANISMS OF GLUTAMINE SYNTHETASE ENZYMES 7530
AQUOMETHEMOGLOBIN
HEME REDUCTION IN HUMAN METHEMOGLOBIN 2677
ARABINONUCLEOSIDES
SPECIFICITY OF DEOXYCYTIDINE KINASE 4055
ARACHIDONATE
SEE ALSO FATTY ACIDS
SEE ALSO PROSTAGLANDINS
PROSTAGLANDIN BIOSYNTHESIS AND VASOACTIVE SUBSTANCES 776
MECHANISM OF THROMBIN-MEDIATED BURST IN O2 USE BY PLATELETS 2536
STIMULATION OF PROSTAGLANDIN SYNTHESIS 5814
MECHANISM FOR SELF-DEACTIVATION OF PROSTAGLANDIN SYNTHETASE 7329
OXYGENATION OF UNSATURATED FATTY ACIDS IN RABBIT LEUKOCYTES 7816
ARGININE
SEE ALSO HISTONES
COMPARTMENTATION OF ORNITHINE IN NEUROSPORA 3948
ARGININE (IN PROTEINS)
A MODIFICATION WHICH AFFECTS THE STABILITY OF HNW-EGF 1188
ARGINYL RESIDUES OF MITOCHONDRIAL ATPASE 1775
ESSENTIAL ARGININE OF ASPARTATE TRANSCARBAMYLASE 2688
PROTEIN DEGRADATION IN REGENERATING LIVER 2891
FUNCTIONAL ARGININE RESIDUE OF GLUTAMATE DEHYDROGENASE 5635
ESSENTIAL ARGINYL RESIDUES OF D-SERINE DEHYDRATASE 6179
ARGININE ESTEROPEPTIDASE
ESTEROPEPTIDASES OF NERVE AND EPIDERMAL GROWTH FACTORS 165
ARGININE KINASE
NUCLEOTIDE METABOLIZING ENZYMES IN CHLAMYDOMONAS FLAGELLA 182
PHOSPHOROUS MAGNETIC RESONANCE STUDY OF ARGININE KINASE 6981
ARGINYL-TRNA SYNTHETASE
EFFECT OF METALS ON ESCHERICHIA COLI ARGINYL-TRNA SYNTHETASE 241
AROMATASE
KINETIC PROPERTIES OF HUMAN PLACENTAL AROMATASE 1625
AROMATIC AMINO ACIDS
SEE ALSO TRYPTOPHAN
SEE ALSO TYROSINE
3-DEOXY-D-ARABINO-HEPTULOSONATE 7-PHOSPHATE SYNTHASE 5448
AROMATIC AMINOTRANSFERASE
AROMATIC AMINOTRANSFERASES IN BACILLUS SUBTILIS 6974
AROMATIC HYDROCARBONS
SEE ALSO OXYGENASES
ARSENATE
CORRECTION TO SAIER ET AL VOL. 254 (1979) P. 7593 1531
CALCIUM-INDUCED TRANSITION IN MITOCHONDRIA 5069
ARYL HYDROCARBON HYDROXYLASE
SEE ALSO HYDROXYLASES
SEE ALSO OXYGENASES
ASCARIS LUMBRICOIDES
ASCARIS NADH NAD-PLUS TRANSHYDROGENASE 2217
CHARACTERIZATION OF ASCARIS CARBOXYPEPTIDASE INHIBITORS 2226
ASCARIS SUUM
REGULATORY PROPERTIES OF ASCARIS NAD-MALIC ENZYME 3599
ASCITES CELLS
SEE ALSO EHRLICH ASCITES CELLS
SEE ALSO HEPATOMA CELLS
ALPHA-N-ACETYLATION OF EHRLICH ASCITES PROTEINS 1809
CHARACTERIZATION OF EIF-3 1926
PURIFICATION OF COMPLEX U UMP SYNTHESIS FROM OROTATE OR OMP 5589
ASCITES FLUID
COMPARISON OF PURIFIED MURINE LEUKEMIA VIRUS GLYCOPROTEINS 6197
ASCORBATE
ORGANIC PHOSPHATES AND METHEMOGLOBIN REDUCTION BY ASCORBATE 7494
ASIALOGLYCOPROTEINS
SEE ALSO GLYCOPROTEINS
SUBCELLULAR SITES OF HEPATIC BINDING PROTEIN 7539
ASPARAGINASE
ANTITUMOR GLUTAMINASE-ASPARAGINASE FROM PSEUDOMONAS 7A 2119
GUINEA PIG LIVER L-ASPARAGINASE 2538
L-ASPARAGINASE OF KLEBSIELLA AEROGENES 2722
PSEUDOMONAS 7A GLUTAMINASE-ASPARAGINASE 5375
L-ASPARAGINASE FROM VIBRIO SUCCINOGENES 6929
ASPARAGINE (IN PROTEINS)
SEE ALSO ASPARTATE (IN PROTEINS)
STRUCTURE OF HEMOGLOBINS PROVIDENCE ASP AND ASN 7557
ASPARAGUS
ASPARAGUSATE DEHYDROGENASES AND LIPOYL DEHYDROGENASE 3637
ASPARAGUSATE DEHYDROGENASE
ASPARAGUSATE DEHYDROGENASES AND LIPOYL DEHYDROGENASE 3637
ASPARTATE
EFFECT OF HYDROGEN SHUTTLES ON FATTY ACID OXIDATION 277

ASPARTATE (IN PROTEINS)
AA SEQUENCE OF ACTIVE SITE PEPTIDES FROM SUCRASE-ISOMALTASE 3250
CARBONIC ANHYDRASE C SEQUENCE 5457
ASPARTATE AMINOTRANSFERASE
MAGNETIC RESONANCE PROBE (19-F) IN ASPARTATE TRANSAMINASE 1853
IRREVERSIBLE INHIBITION OF ASPARTATE AMINOTRANSFERASE 3306
THE PK OF LYS-258 IN ASPARTATE TRANSAMINASE 5663
ASPARTATE TRANSCARBAMYLASE
CONTROL OF PYRIMIDINE SYNTHESIS BY GUANINE AND GUANOSINE 1427
ESSENTIAL ARGININE OF ASPARTATE TRANSCARBAMYLASE 2688
BINDING OF CARBAMYL PHOSPHATE TO ASPARTATE TRANSCARBAMYLASE 5966
13C NMR AND ASPARTATE TRANSCARBAMYLASE 5976
FILTER ASSAY TO ESTIMATE WEAK LIGAND BINDING TO ATCASE 5986
ASPARTYL SHIFT
CARBONIC ANHYDRASE C SEQUENCE 5457
ASPERGILLUS ORYZAE
KINETICS OF NUCLEASE O AND NUCLEASE INHIBITOR OF ASPERGILLUS 2808
ASPIRIN
SEE ALSO ACETYLSALICYCLATE
ASSOCIATION-DISSOCIATION
SEE ALSO PROTEIN, ASSOCIATION-DISSOCIATION
SEE ALSO PROTEIN, SUBUNITS
NITRATE REDUCTASE FROM ESCHERICHIA COLI 2207
ASTROBLASTS
SEE ALSO NERVE CELLS
ASTROCYTES
BUFFER AND PH EFFECTS ON BRAIN-SPECIFIC PROTEIN ACCUMULATION 5112
ATHEROSCLEROSIS
SEE ALSO CHOLESTEROL
SEE ALSO LIPOPROTEINS
ATP
SEE ALSO ADENYLATE ENERGY CHARGE
SEE ALSO PROTEIN, KINASES
SEE ALSO SPECIFIC KINASES
NUCLEOTIDE METABOLIZING ENZYMES IN CHLAMYDOMONAS FLAGELLA 182
EFFECT OF METALS ON ESCHERICHIA COLI ARGINYL-TRNA SYNTHETASE 241
INHIBITION OF PYRUVATE CARBOXYLASE BY CHROMIUM NUCLEOTIDES 326
ADP-ATP TRANSPORT IN RICKETTSIAE 389
ADENINE NUCLEOTIDE LEVELS OF SPERM 787
ATP-DEPENDENT PROPERTIES OF MITOCHONDRIA 934
EUKARYOTIC CYTOCHROMES C REACTIONS WITH MITOCHONDRIAL ENZYME 1104
REGULATION OF PYRUVATE DEHYDROGENASE 1364
PURIFICATION AND MECHANISM STUDIES ON CITRATE SYNTHASE 1476
MODE OF ACTION OF CYCLIC GMP ON PROTEIN KINASE 1481
CORRECTION TO GARRETT + PENEFSKY VOL. 250 (1975) P.6640 1846
RABBIT SKELETAL MUSCLE GLYCOGEN SYNTHASE II 1920
ATP SYNTHESIS IN SARCOPLASMIC RETICULUM VESICLES 2055
CIRCULAR DICHROISM OF BIOTIN CARBOXYL CARRIER PROTEIN 2063
A KINETIC STUDY OF GLUCOSE 6-PHOSPHATE DEHYDROGENASE 2258
CONFORMATION OF ATP ON PYRUVATE KINASE 2412
NMR STUDIES OF INTERACTION OF CR-ATP WITH PYRUVATE KINASE 2421
SUBSTRATE CONFORMATIONS ON PYRUVATE KINASE 2431
ADENINE NUCLEOTIDE TRANSPORT 2446
ANALYSIS OF INTACT MUSCLE BY 31P NUCLEAR MAGNETIC RESONANCE 2584
DESENSITIZATION BY LH OF LH-RESPONSIVE ADENYLYL CYCLASE 2653
ESSENTIAL ARGININE OF ASPARTATE TRANSCARBAMYLASE 2688
VITAMIN K-DEPENDENT CARBOXYLASE 2770
STRUCTURE OF CREATINE KINASE-SUBSTRATE COMPLEXES 2777
TYROSINE RESIDUES IN PORCINE MUSCLE ADENYLATE KINASE 3021
COMPARATIVE BINDING AND RATE STUDY OF AMP NUCLEOSIDASE 3417
REGULATION OF ESCHERICHIA COLI GLUTAMINASE 8. III 3463
GAMMA-GLUTAMYLCYSTEINE SYNTHETASE 3563
BINDING OF SUBSTRATES TO RIBONUCLEOTIDE REDUCTASE 3616
SEPARATION OF DIFFERENT MYOSINS BY ATP AND ACTIN COLUMNS 3972
ON THE MECHANISM OF FORMYLTETRAHYDROFOLATE SYNTHETASE 4159
CHLOROPLAST PHOSPHORYLATION 4165
ETHOXYFORMYLATION OF SARCOPLASMIC RETICULUM VESICLES 4322
CTP SYNTHETASE OF CALF LIVER. SIZE, POLYMERIZATION 4372
STEADY-STATE KINETICS OF PENICILLIUM ATP SULFURYLASE 4389
CHROMAFFIN GRANULE MEMBRANE POTENTIAL 4544
ALLOSTERIC REGULATION OF HEXOKINASE C FROM AMPHIBIAN LIVER 5035
MYOSIN LIGHT CHAIN MODIFICATION+ EFFECT ON ACTIN BINDING 5424
CORRECTION TO BOCKAERT ET AL VOL. 251 (1976) P. 2653 5429
CO A/AC-CO A,NAD/NADH RATIOS + HEART PYRUVATE DEHYDROGENASE 5483
GLUTAMINE SYNTHETASE EXCHANGES 5558
HYSTERETIC KINETICS OF ERYTHROCYTE PYRUVATE KINASE 5600
LIGAND INDUCED STRUCTURAL CHANGES IN PHOSPHOFRUCTOKINASE 5637
PH INDUCED REGULATORY KINETICS OF PHOSPHOFRUCTOKINASE 5644
HEMOPHILUS EXO V ACTIVITY ON CROSS-LINKED DNA 6117
BINDING OF HEMOPHILUS EXO V TO DNA 6122
DNA DEGRADATION BY HEMOPHILUS EXONUCLEASE B 6127
INTERACTIONS OF ACTIN AND NUCLEOTIDE BINDING SITES ON MYOSIN 6170
PHOSPHOFRUCTOKINASE REGULATION IN A THYROID TUMOR 6244
POLYRIBOADENYLATE POLYMERASE OF ESCHERICHIA COLI 6274
PHOSPHORYLATION OF THE SARCOPLASMIC RETICULUM MEMBRANE 6355
LIPOGENIC DIFFERENTIATION IN CELL CULTURE 6462
TIME DEPENDENT CHANGES IN ADENYLATE CYCLASE 6564
IMP-P(NH)P INHIBITION OF ATPASE 6705
NUCLEOTIDE EXCHANGE INTO COUPLING FACTOR 1 6874
PHOSPHOROUS MAGNETIC RESONANCE STUDY OF ARGININE KINASE 6981
TIGHTLY BOUND NUCLEOTIDES IN ETPH 7110
TETRAIODOFLUORESCEIN WITH YEAST HEXOKINASE 7157
CONTROL OF PHOSPHOFRUCTOKINASE FROM SKELETAL MUSCLE 7322
ACID-INDUCED PHOSPHORYLATION OF BOUND ADP 7417
ORGANIC PHOSPHATES AND METHEMOGLOBIN REDUCTION BY ASCORBATE 7494
PH-DEPENDENT EFFECTS OF CR(NH3)2ATP ON HEXOKINASE KINETICS 7521
SYNTHESIS OF ATP BY ISOLATED CF1 VIA TRANSPHOSPHORYLATION 7796
SQUID MANTLE MUSCLE ADENYLATE KINASE 7810
ATP CITRATE LYASE
STRUCTURE OF ATP CITRATE LYASE 5242
ATP PHOSPHOHYDROLASE
SEE ALSO ATPASE
ATP PHOSPHORYL TRANSFER
ATP OXYGEN SCRAMBLING 5881
ATP SULFURYLASE
STEADY-STATE KINETICS OF PENICILLIUM ATP SULFURYLASE 4389
ATPASE
SEE ALSO ATP
SEE ALSO IONOPHORES
SEE ALSO SARCOPLASMIC RETICULUM
NUCLEOTIDE METABOLIZING ENZYMES IN CHLAMYDOMONAS FLAGELLA 182
TRYPTIC FRAGMENTS OF SARCOPLASMIC RETICULUM ATPASE 712
DNA-DEPENDENT ATPASE 808
ATP-DEPENDENT PROPERTIES OF MITOCHONDRIA 934
PROTON-COUPLED CALCIUM TRANSPORT 962
CROSSLINKING OF NA-K ATPASE 1247
ARGINYL RESIDUES OF MITOCHONDRIAL ATPASE 1775
CORRECTION TO GARRETT + PENEFSKY VOL. 250 (1975) P.6640 1846
THE NNAOP COMPLEX WITH MYOSIN SUBFRAGMENT 1 1975
BIOSYNTHESIS OF THE ATPASE OF SARCOPLASMIC RETICULUM 2030
ARRANGEMENT OF PROTEINS IN SARCOPLASMIC RETICULUM 2037
NEW INTERMEDIATE IN MECHANISM OF NA + K ATPASE 2186
KINETIC EFFECTS OF CALCIUM ON SARCOPLASMIC RETICULUM ATPASE 2307
PROTON TRANSLOCATING ATPASE 2453
ATPASE REQUIREMENT IN RHO FUNCTION 2526
RECONSTITUTION OF A CALCIUM PUMP IN SARCOPLASMIC RETICULUM 3169
A23187 INCREASES POTASSIUM PERMEABILITY OF ERYTHROCYTES 3489
INHIBITION OF RECBC DNASE BY E. COLI BINDING PROTEIN 3716
CA++-IONOPHORE ACTIVITY IN ATPASE FRAGMENT 4147
ROLE OF PHOSPHOLIPIDS IN THE CALCIUM-DEPENDENT ATPASE 4224
AVIAN (NA+,K+)ATPASE PURIFICATION AND NH2-TERMINAL SEQUENCE 4365
SIMILARITIES BETWEEN CALCIUM-DEPENDENT REGULATORY PROTEINS 4501
ENZYME ACTIVITIES IN SUBCELLULAR FRACTIONS OF BOVINE RETINA 4700
PURIFICATION AND CHARACTERIZATION OF ACANTHAMOEBA ACTIN 4778
SPECIFIC SODIUM-22 BINDING TO A PURIFIED (NA+-K+)-ATPASE 4794
CALCIUM-INDUCED TRANSITION IN MITOCHONDRIA 5069
PHOSPHOLIPID-PROTEIN INTERACTION IN CA++ ATPASE 5161
MECHANISM OF ATP HYDROLYSIS BY SARCOPLASMIC RETICULUM 5414
MYOSIN LIGHT CHAIN MODIFICATION+ EFFECT ON ACTIN BINDING 5424
ATP-DEPENDENT CALCIUM TRANSPORT IN MEMBRANE VESICLES 5614
DYNEIN 2 ATPASE FROM SEA URCHIN SPERM FLAGELLA 5793
MITOCHONDRIAL INNER MEMBRANE SYNTHESIS IN CULTURED OOCYTES 6097
HEMOPHILUS EXO V ACTIVITY ON CROSS-LINKED DNA 6117
CORRECTION TO HIDALGO ET AL VOL. 251 (1976) P. 4224 6160
PHOSPHORYLATION OF THE SARCOPLASMIC RETICULUM MEMBRANE 6355
PURIFICATION OF THE CARBODIIMIDE-REACTIVE PROTEIN 6638
IMP-P(NH)P INHIBITION OF ATPASE 6705
INCORPORATION OF PROTEINS INTO LIPOSOMES 6831
ATPASE OF SARCOPLASMIC RETICULUM 6894
STIMULATION OF CALCIUM PUMP BY MONOVALENT CATIONS 6947
CHEMICAL CROSS-LINKING OF CHLOROPLAST COUPLING FACTOR 1 6953
BIOLOGICAL ELECTRIC GENERATORS. M-PLUS-ATPASE 7077
TIGHTLY BOUND NUCLEOTIDES IN MITOCHONDRIAL ATPASE 7103
TIGHTLY BOUND NUCLEOTIDES IN ETPH 7110
ENERGY-DEPENDENT AMINO GROUP EXPOSURE ON CHLOROPLAST CF1 7168
RESTORATION OF CALCIUM TRANSPORT ATPASE 7271
CA2+ AFFINITY TO PHOSPHORYLATED SR ATPASE 7275
SQUID BRAIN MYOSIN 7682
A NONELECTROGENIC H+ PUMP IN HOG GASTRIC MEMBRANE 7698
BIOSYNTHESIS OF CALSEQUESTRIN 7733
DEPENDENCE OF (NA+, K+)ATPASE ON THYROID 7826
EFFECT OF T3 ON (NA+, K+)ATPASE SYNTHESIS 7834
ATRACTYLOSIDE
ADENINE NUCLEOTIDE TRANSPORT 2446
ATROPINE
MUSCARINIC ACETYLCHOLINE RECEPTOR FROM RAT BRAIN 1543
AUTOGENOUS CONTROL
REGULATION OF GENE 32 EXPRESSION DURING T4 INFECTION 7251
TRANSLATIONAL, AUTOGENOUS CONTROL OF GENE 32 EXPRESSION 7263
AUTOLYSIN
PURIFICATION OF THE PNEUMOCOCCAL AUTOLYSIN (AMIDASE) 4199
AUTOOXIDATION
ANILINE-OXYHEMOGLOBIN INTERACTION 3442
AUXINS
INDOLE-3-ACETALDEHYDE REDUCTASES 987
AVIAN MYELOBLASTOSIS VIRUS
SEE ALSO VIRUSES, ANIMAL
FIDELITY OF DNA REPLICATION 975
ON THE FIDELITY OF DNA REPLICATION 982
IMPORTANCE OF FULL-SIZE CDNA IN NUCLEIC ACID HYBRIDIZATION 3425
AXONEMES
OCHROMONAS FLAGELLAR MEMBRANE ISOLATION AND CHARACTERIZATION 1828
PHOSPHORYLATION AXONEMAL PROTEINS IN CHLAMYDOMONAS 2161
AZAGUANINE
HYPOXANTHINE TRANSPORT BY CHINESE HAMSTER FIBROBLASTS 4823
AZAURACIL
UV SENSITIZATION OF DTMP KINASE BY HALOGENATED ANALOGS 6555
AZETIDINE CARBOXYLATE
PROTEIN DEGRADATION IN HUMAN FIBROBLASTS 3521
AZIDE
EFFECTS OF SODIUM AZIDE ON RENAL CORTICAL CGMP 4651
IRON SUPEROXIDE DISMUTASE FROM E. COLI 5472
MAGNESIUM DEPENDENT GUANYLATE CYCLASE 7769
AZIDO NUCLEOSIDES
UV SENSITIZATION OF DTMP KINASE BY HALOGENATED ANALOGS 6555
AZIDO-DEOXYCYTIDINE
ACTIVE SITE OF RIBONUCLEOSIDE DIPHOSPHATE REDUCTASE 1398
AZOTOBACTER VINELANDII
TRANSLATION SPECIFICITY OF BACTERIAL RIBOSOMES AND MRNA 2499
COMPARATIVE BINDING AND RATE STUDY OF AMP NUCLEOSIDASE 3417
ATP-DEPENDENT CALCIUM TRANSPORT IN MEMBRANE VESICLES 5614
A23187
AMINO ACID TRANSPORT IN THYMOCYTES 6630

B

BACILLUS CEREUS
FOLATE-DEPENDENT RIBOTHYMIDINE BIOSYNTHESIS 7649
BACILLUS CIRCULANS
AN ENDO-1-6-D-MANNANASE FROM SOIL BACTERIA 174
BACILLUS LICHENIFORMIS
MEMBRANE PENICILLINASE OF B. LICHENIFORMIS 4695
PHOSPHOLIPOPEPTIDE FROM BACILLUS MEMBRANE PENICILLINASE 4102
BACILLUS MEGATERIUM
MEMBRANE BOUND PEPTIDOGLYCAN SYNTHETIC PROTEIN B MEGATERIUM 1889
15-BETA-HYDROXYLASE SYSTEM IN BACILLUS MEGATERIUM 2831
SPECIFIC SPORE PROTEASE FROM B. MEGATERIUM 7853
BACILLUS SPHAERICUS
CONDITIONAL SPORE CORTEX-LESS MUTANTS OF B. SPHAERICUS 1493
CORRECTION TO IMAE AND STROMINGER VOL. 251 (1976) P. 1493 3839
BACILLUS STEAROTHERMOPHILUS
RECONSTITUTION OF 50 S RIBOSOMES FROM PURIFIED COMPONENTS 209
CORRECTION TO COHLBERG AND NOMURA VOL.251 (1976) P. 209 2548
B. SUBTILIS AND B. STEAROTHERMOPHILUS 5S RNAS 3122
DEGRADATION OF PENILILLIN G BY D-ALANINE CARBOXYPEPTIDASE 7947
BACILLUS SUBTILIS
PRIMARY STRUCTURE OF BACILLUS SUBTILIS FLAGELLIN. I. 695
PRIMARY STRUCTURE OF BACILLUS SUBTILIS FLAGELLIN. II. 701
PRIMARY STRUCTURE OF BACILLUS SUBTILIS FLAGELLIN. III. 705
DNA POLYMERASE III FROM BACILLUS SUBTILIS 1311
TRANSLATION SPECIFICITY OF BACTERIAL RIBOSOMES AND MRNA 2499
B. SUBTILIS AND B. STEAROTHERMOPHILUS 5S RNAS 3122
NUCLEOTIDE SEQUENCE OF A R-RNA PRECURSOR FROM B. SUBTILIS 3480
STRUCTURE OF PLANT CELL WALLS 5904
AROMATIC AMINOTRANSFERASES IN BACILLUS SUBTILIS 6974
FOLATE-DEPENDENT RIBOTHYMIDINE BIOSYNTHESIS 7649
BACITRACIN
ROLE OF TRISACCHARIDE-LIPID IN GLYCOSYLATION OF PROTEINS 7802
BACTERIA
REGULATION OF CARBOHYDRATE METABOLISM IN ESCHERICHIA COLI 5522
BACTERIA, HALOPHILIC
SEE ALSO HALOBACTERIUM SALINARIUM
FORMATION OF LIPID-LINKED SUGAR COMPOUNDS IN H. SALINARIUM 7289

BACTERIOCHLOROPHYLL
BIOLOGICAL ELECTRIC GENERATORS. CHLOROPHYLL COMPLEXES 7666
BACTERIOPHAGE ADSORPTION
DEACETYLATION ACTIVITY OF SALMONELLA PHAGE C341 5361
BACTERIOPHAGE C 341
DEACETYLATION ACTIVITY OF SALMONELLA PHAGE C341 5361
BACTERIOPHAGE F1
F1 BACTERIOPHAGE COAT PROTEIN AND PHOSPHOLIPID METABOLISM 7739
BACTERIOPHAGE FZ
TRANSLATION SPECIFICITY OF BACTERIAL RIBOSOMES AND MRNA 2499
BACTERIOPHAGE LAMBDA
DELAYED INITIATION BY DNA POLYMERASE I 4090
BACTERIOPHAGE MS2
MODE OF ACTION OF BOTTROMYCIN A2 2299
BACTERIOPHAGE PHI-X 174
NONSPECIFIC CLEAVAGE OF PHI-X 174 RF I BY N. CRASSA NUCLEASE 530
BACTERIOPHAGE Q-BETA
SEE ALSO Q-BETA REPLICASE
BACTERIOPHAGE T-EVEN
DEGRADATION OF DNA CONTAINING 5-HYDROXYMETHYLCYTOSINE 1561
BACTERIOPHAGE T4
TRNA BIOSYNTHESIS SPECIFICITY OF RNASE P 2440
PURIFICATION AND PROPERTIES OF ANTIMUTATOR DNA POLYMERASE 2475
TEMPERATURE SENSITIVITY OF ANTIMUTATOR DNA POLYMERASE 2480
TRANSLATION SPECIFICITY OF BACTERIAL RIBOSOMES AND MRNA 2499
5-PRIME-3-PRIME EXONUCLEASES OF BACTERIOPHAGE T4 2613
CB120 ANTIMUTATOR T4 DNA POLYMERASE 5219
NUCLEOTIDE SELECTION BY T4 DNA POLYMERASES 5225
EFFECTS OF GENE 32-PROTEIN BINDING ON DNA CONFORMATION 7215
MAPPING OF THE GENE 32-PROTEIN-NUCLEIC ACID BINDING SITE 7229
PARAMETERS FOR GENE 32-PROTEIN BINDING TO NUCLEIC ACIDS 7240
REGULATION OF GENE 32 EXPRESSION DURING T4 INFECTION 7251
TRANSLATIONAL, AUTOGENOUS CONTROL OF GENE 32 EXPRESSION 7263
BACTERIOPHAGE T5
THE PHYSICAL MAPPING OF BACTERIOPHAGE T5 TRANSFER TRNAS 536
T5 DNA POLYMERASE, SYNTHESIS WITH STRAND DISPLACEMENT 2168
ELECTRON MICROGRAPHS OF DNA REPLICATED BY T5 DNA POLYMERASE 2174
BACTERIOPHAGE T7
RNASE III CLEAVAGE OF SINGLE-STRANDED RNA 3867
BACTERIORHODOPSIN
BIOLOGICAL ELECTRIC GENERATORS. BACTERIORHODOPSIN 7659
BIOLOGICAL ELECTRIC GENERATORS. CHLOROPHYLL COMPLEXES 7666
BIOLOGICAL ELECTRIC GENERATORS. CYTOCHROME OXIDASE 7672
BIOLOGICAL ELECTRIC GENERATORS. H-PLUS-ATPASE 7677
BACTOPRENOL
PHOSPHOLIPID ACTIVATION OF A PURIFIED MEMBRANE ENZYME 1264
LIPID ACTIVATION OF A MEMBRANE ENZYME. BIOPHYSICAL STUDIES 1270
DETERGENT ACTIVATION OF A PURIFIED MEMBRANE ENZYME 1277
BARIUM
ROLE OF GAMMA-CARBOXYGLUTAMIC ACID 6886
BASEMENT MEMBRANE
SEE ALSO MEMBRANES, BASEMENT
SYNTHESIS OF BASEMENT MEMBRANE COLLAGEN BY ENDOTHELIUM 730
SUBUNIT COMPOSITION OF THE GLOMERULAR BASEMENT MEMBRANE 4462
BASIC PROTEIN
SEE ALSO HISTONES
SEE ALSO MYELIN
SEE ALSO PROTAMINES
SEE ALSO PROTEIN, BASIC
BATRACHOTOXIN
PURIFICATION OF A TOXIC PROTEIN FROM SCORPION VENOM 5528
BENECKEA HARVEYI
POLYPEPTIDE SYNTHESIS DURING INDUCTION OF BIOLUMINESCENCE 2541
CORRECTION TO MICHALISZYN + MEIGHEN VOL. 251 (1976) P. 2541 4479
BENZOATE
GLYCINE + L-GLUTAMINE SPECIFIC ACYL-CO A NIACYLTRANSFERASES 3352
BENZOYL CO A
GLYCINE + L-GLUTAMINE SPECIFIC ACYL-CO A NIACYLTRANSFERASES 3352
BENZPHETAMINE
MULTIPLE FORMS OF RAT LIVER CYTOCHROME P 450 1385
BENZPYRENE
CONTROL OF MONOOXYGENASE AND EPOXIDE HYDRATASE 79
MULTIPLE FORMS OF RAT LIVER CYTOCHROME P 450 1385
ENZYME MEDIATED MUTAGENESIS OF BENZPYRENE 4882
BENZPYRENE HYDROXYLASES
SEE ALSO HYDROXYLASES
SEE ALSO OXYGENASES
BENZYL BROMIDE
ALKYLATION OF METHIONINE IN FUMARASE BY BENZYL BROMIDE 5711
BETA ADRENERGIC EFFECTS
SEE ALSO ADRENERGIC RECEPTORS
SEE ALSO CATECHOLAMINES
SEE ALSO RECEPTORS, HORMONAL
BETA ADRENERGIC RECEPTORS
IDENTIFICATION OF ALPHA-ADRENERGIC RECEPTORS 6915
BETA GALACTOSIDASE
SEE ALSO GALACTOSIDASE
BETA GLUCURONIDASE
SEE ALSO GLUCURONIDASE
BICARBONATE
SEE ALSO CARBON DIOXIDE
SEE ALSO CARBONIC ANHYDRASE
ATP-DEPENDENT PROPERTIES OF MITOCHONDRIA 934
CIRCULAR DICHROISM OF BIOTIN CARBOXYL CARRIER PROTEIN 2063
BUFFER AND PH EFFECTS ON BRAIN-SPECIFIC PROTEIN ACCUMULATION 5112
BIFUNCTIONAL REAGENTS
INACTIVATION OF CYTO MALATE DEHYDROGENASE BY PYRIDOXAL-5-P 6304
BILAYERS
SEE ALSO VESICLES
BILE ACIDS
SEE ALSO CHOLATE
BILE ALCOHOL METABOLISM IN RABBIT LIVER 2709
BILE ACID PATHWAYS IN MAN 6308
BILE ALCOHOLS
BILE ALCOHOL METABOLISM IN RABBIT LIVER 2709
BILE PIGMENTS
CLEAVAGE OF PHYCOCYANOBILIN FROM C-PHYCOCYANIN 2405
BILE SALTS
COFACTOR EFFECTS ON PROPERTIES OF LIPASE B AT AN INTERFACE 378
MECHANISM OF ACTION OF COFACTORS ON LIPASE B ACTIVITY 384
BILIRUBIN
HIGH AFFINITY BILIRUBIN BINDING SITE IN HUMAN SERUM ALBUMIN 801
BINDING CONSTANTS
BINDING OF POLYPEPTIDE HORMONES TO BOVINE NEUROPHYSINS 2929
EFFECTS OF RNASE BINDING ON DNA CONFORMATION AND STABILITY 7198
EFFECTS OF GENE 32-PROTEIN BINDING ON DNA CONFORMATION 7215
MAPPING OF THE GENE 32-PROTEIN-NUCLEIC ACID BINDING SITE 7229
PARAMETERS FOR GENE 32-PROTEIN BINDING TO NUCLEIC ACIDS 7240
BINDING PROTEINS
SEE ALSO AFFINITY, PARTITIONING
SEE ALSO CHROMATOGRAPHY, AFFINITY
SEE ALSO LECTINS
SEE ALSO PROTEIN, BINDING
SEE ALSO TRANSFERRIN
SEE ALSO UNWINDING PROTEIN
DNA-DEPENDENT ATPASE 808
CORRECTION TO HELLER VOL. 250 (1975) P. 3613 985
A MODIFICATION WHICH AFFECTS THE STABILITY OF MMW-EGF 1188
A HEPATIC BINDING PROTEIN FOR ASIALOGLYCOPROTEINS 1296
ERYTHROCYTE MEMBRANE D-GLUCOSE TRANSPORT PROTEIN 1582
TROPONIN-C-LIKE PROTEIN IN BOVINE ADRENAL MEDULLA 1603
ARRANGEMENT OF PROTEINS IN SARCOPLASMIC RETICULUM 2037
BINDING OF POLYPEPTIDE HORMONES TO BOVINE NEUROPHYSINS 2929
ROLES OF INDIVIDUAL MGL GENE PRODUCTS IN ACTIVE TRANSPORT 3112
RECONSTITUTION OF A CALCIUM PUMP IN SARCOPLASMIC RETICULUM 3169
LANTHANIDE IONS AND METAL-DEPENDENT PROTHROMBIN ACTIVATION 3235
INHIBITION OF RECBC DNASE BY E. COLI BINDING PROTEIN 3716
CYCLIC 3-PRIME 5-PRIME-NUCLEOTIDE PHOSPHODIESTERASE 4193
PLATELET FACTOR FOUR 4273
COMPARISON OF CALCIUM-BINDING PROTEINS 4495
SIMILARITIES BETWEEN CALCIUM-DEPENDENT REGULATORY PROTEINS 4501
REGULATION OF ADENYLATE CYCLASE BY A CALCIUM-BINDING PROTEIN 4744
25-HYDROXYVITAMIN D TRANSPORT IN HUMAN PLASMA 4803
STEREOSPECIFIC BINDING TO TCDD BY HEPATIC CYTOSOL 4936
CORTICOSTEROID-BINDING PROTEINS IN COLOSTRUM AND MILK 5272
CARBOHYDRATE STRUCTURE OF HEPATIC BINDING PROTEIN 5292
PROGESTERONE BINDING BY RABBIT AND GUINEA PIG UTERINE NUCLEI 5607
CA2+-INDUCED CONFORMATIONAL CHANGE IN ADRENAL MEDULLA TN-C 6315
COLLAGEN-PLATELET INTERACTION 6347
UPTAKE OF VITAMIN A TO TISSUE CELLS 6368
THYROXINE ANALOGUE BINDING TO THYROXINE BINDING GLOBULIN 6489
PURIFICATON AND PROPERTIES OF FILAMIN 6562
SPECTRAL CHANGES IN FACTOR X ASSOCIATED WITH ACTIVATION 6887
EFFECTS OF RNASE BINDING ON DNA CONFORMATION AND STABILITY 7198
PARAMETERS FOR GENE 32-PROTEIN BINDING TO NUCLEIC ACIDS 7240
NUCLEAR THYROID HORMONE RECEPTORS 7388
CALCIUM BINDING TO TROPONIN C 7551
FAT CELL CHOLERA TOXIN RECEPTOR 7610
DNA BINDING OF THYROID HORMONE RECEPTORS 7380
BINDING SITES
SEE ALSO BINDING PROTEINS
SEE ALSO ENZYMES, ACTIVE SITE
SEE ALSO LECTINS
SEE ALSO RECEPTORS
BIOCHEMISTRY OF TASTE. STIMULUS BINDING TO RECEPTORS 88
CORRECTION TO HELLER VOL. 250 (1975) P. 3613 945
RIBONUCLEASE QUANTITATIVE AFFINITY CHROMATOGRAPHY 2644
LOCATION OF SUBSTRATE SITE OF SUCCINATE DEHYDROGENASE 2369
PGE1 RECEPTORS AND ADENYLATE CYCLASE IN CULTURED CELLS 3237
BINDING OF SUBSTRATES TO RIBONUCLEOTIDE REDUCTASE 3616
HORMONE BINDING EFFECTS ON NEUROPHYSIN QUATERNARY STRUCTURE 3965
CATALYTIC FRAGMENT OF CYCLIC GMP-DEPENDENT PROTEIN KINASE 4476
INTERACTION OF CYCLIC AMP WITH PROTEIN KINASE 4551
BINDING OF VASOACTIVE INTESTINAL PEPTIDE 4629
SPECIFIC SODIUM-22 BINDING TO A PURIFIED (NA+-K+)-ATPASE 4794
BINDING OF GONADOTROPIN TO SOLUBLE FACTORS FROM RAT TESTIS 4947
BINDING SITES ON TRYPTOPHANYL-TRNA SYNTHETASE OF E. COLI 5195
CALCIUM BINDING TO ADIPOCYTE PLASMA MEMBRANES 5345
SUBUNIT STRUCTURE OF CHICKEN LIVER FATTY ACID SYNTHETASE 5352
PROGESTERONE BINDING BY RABBIT AND GUINEA PIG UTERINE NUCLEI 5607
LIGAND INDUCED STRUCTURAL CHANGES IN PHOSPHOFRUCTOKINASE 5637
SUBUNIT STRUCTURE OF WISTARIA FLORIBUNDA LECTIN 5686
DIPHTHERIA TOXIN INTERACTION WITH CELL MEMBRANES 5770
BINDING OF CARBAMYL PHOSPHATE TO ASPARTATE TRANSCARBAMYLASE 5966
BINDING OF HEMOPHILUS EXO V TO DNA 6122
INTERACTIONS OF ACTIN AND NUCLEOTIDE BINDING SITES ON MYOSIN 6170
INSULIN BINDING TO CHICK EMBRYO FIBROBLASTS 6445
THIODIGALACTOSIDE BINDING TO ESCHERICHIA COLI M PROTEIN 6735
INTERACTION OF ORGANOPHOSPHATES WITH HEMOGLOBINS 6815
INTERCONVERTIBLE FORMS OF E. COLI DIHYDROFOLATE REDUCTASE 7011
EFFECTS OF RNASE BINDING ON DNA CONFORMATION AND STABILITY 7198
EFFECTS OF GENE 32-PROTEIN BINDING ON DNA CONFORMATION 7215
MAPPING OF THE GENE 32-PROTEIN-NUCLEIC ACID BINDING SITE 7229
PARAMETERS FOR GENE 32-PROTEIN BINDING TO NUCLEIC ACIDS 7240
CALF BETA-GALACTOSIDE BINDING LECTINS 7581
FAT CELL CHOLERA TOXIN RECEPTOR 7610
SYNTHESIS OF ATP BY ISOLATED CF1 VIA TRANSPHOSPHORYLATION 7796
BIOLUMINESCENCE
SEE ALSO LUMINESCENCE
BIOPTERIN
THE ENZYMATIC SYNTHESIS OF BIOPTERIN 6505
BIOTHERMODYNAMICS
RECOMMENDATIONS FOR PRESENTING BIOCHEMICAL EQUILIBRIUM DATA 6879
BIOTIN
INTERMOLECULR TRITIUM TRANSFER IN TRANSCARBOXYLASE REACTION 982
CIRCULAR DICHROISM OF BIOTIN CARBOXYL CARRIER PROTEIN 2063
IMMUNOCHEMISTRY OF THE SUBUNITS OF TRANSCARBOXYLASE 7021
BISGLYCEROPHOSPHATE
ORGANIC PHOSPHATES AND METHEMOGLOBIN REDUCTION BY ASCORBATE 7494
BISPHOSPHOGLYCERATE
RESONANCES OF 13-CO2 CARBAMINO ADDUCTS OF HEMOGLOBIN 477
P-ENZYME INTERMEDIATE IN THE GLUCOSE-1,6-P2 SYNTHASE 5431
HYSTERETIC KINETICS OF ERYTHROCYTE PYRUVATE KINASE 5608
ISOLATION OF HUMAN ERYTHROCYTE PHOSPHOGLYCERATE MUTASE 6699
INTERACTION OF ORGANOPHOSPHATES WITH HEMOGLOBINS 6815
STRUCTURE OF HEMOGLOBINS PROVIDENCE ASP AND ASN 7597
BISPHOSPHOGLYCERATE SYNTHASE
PHOSPHORYLATION OF PHOSPHOGLYCERATE MUTASE AND SYNTHASE 4817
BLACK LIPID MEMBRANE
CA++-IONOPHORE ACTIVITY IN ATPASE FRAGMENT 4147
BLOOD
SEE ALSO HEMOGLOBIN
SEE ALSO PLASMA
SEE ALSO RED BLOOD CELLS
SEE ALSO SERUM
SEE ALSO WHITE BLOOD CELLS
BLOOD CLOTTING
SEE ALSO CLOTTING, BLOOD
SEE ALSO FIBRINOGEN
SEE ALSO PLATELETS
SEE ALSO PROTEOLYSIS
SEE ALSO THROMBIN
SEE ALSO VITAMIN K
PURIFICATION OF HUMAN PLATELET FACTOR 4 324
SPECTRAL CHANGES IN FACTOR X ASSOCIATED WITH ACTIVATION 6887
ROLE OF GAMMA-CARBOXYGLUTAMIC ACID 6886
BLOOD COAGULATION
SEE ALSO CLOTTING, BLOOD
LANTHANIDE IONS AND METAL-DEPENDENT PROTHROMBIN ACTIVATION 3235
BLOOD GROUPS
ENDO-BETA-GALACTOSIDASE ACTING ON BLOOD GROUP SUBSTANCES 3603
BLOOD GROUP ACTIVE GLYCOPROTEIN OF ERYTHROCYTE MEMBRANE 3610

MEMBRANE GLYCOPROTEINS OF EN(A-) ERYTHROCYTES 6108
ENDO-BETA-GALACTOSIDASE HYDROLYSIS OF COMPLEX CARBOHYDRATES 6218
BLOOD PRESSURE REGULATION
HOMOLOGY OF PULMONARY ANGIOTENSIN-CONVERTING ENZYMES 4828
BOHR EFFECT
SEE ALSO HEMOGLOBIN
SUBUNIT DISSOCIATION IN HEMOGLOBIN AND THE BOHR EFFECT 5537
HEMOGLOBINS NANCY AND COCHIN-PORT-ROYAL 5875
FUNCTIONAL PROPERTIES OF TWO FORMS OF HB PROVIDENCE 7563
BOMBYX MORI
SUBUNIT STRUCTURE OF BOMBYX MORI RNA POLYMERASE III 3794
CATALYTIC FRAGMENT OF CYCLIC GMP-DEPENDENT PROTEIN KINASE 4476
BONE
25-HYDROXYVITAMIN D3-1-ALPHA-HYDROXYLASE 3158
SUBMICROSOMAL LOCALIZATION OF PROLYL HYDROXYLASE 4770
BONGKREKIC ACID
ADENINE NUCLEOTIDE TRANSPORT 2446
BORATE
BORATE INACTIVATION OF ANTIFREEZE GLYCOPROTEIN 3033
REGULATION OF ESCHERICHIA COLI GLUTAMINASE B. I 3447
REGULATION OF ESCHERICHIA COLI GLUTAMINASE B. II 3457
ESSENTIAL ARGINYL RESIDUES OF D-SERINE DEHYDRATASE 6179
BOROHYDRIDE
OXALACETATE DECARBOXYLASE AND PYRUVATE KINASE ARE THE SAME 61
MECHANISM OF OXALACETATE DECARBOXYLASE 69
ORGANIZATION OF MEMBRANE PROTEINS IN INTACT MYELIN SHEATH 4729
BOTTROMYCIN
MODE OF ACTION OF BOTTROMYCIN A2 2299
BRADYKININ
PROSTAGLANDIN BIOSYNTHESIS AND VASOACTIVE SUBSTANCES 776
HOMOLOGY OF PULMONARY ANGIOTENSIN-CONVERTING ENZYMES 4828
STIMULATION OF PROSTAGLANDIN SYNTHESIS 5814
THE ENDOPEPTIDASE POST-PROLINE CLEAVING ENZYME 7593
BRAIN
SEE ALSO MEMBRANES, BRAIN
THIAMIN TRIPHOSPHATASE AND DIVALENT CATIONS 193
BIOSYNTHESIS OF SIALOSYLGALACTOSYLCERAMIDE 198
AMMONIA PRODUCTION IN BRAIN 485
PROPERTIES OF NGF RECEPTORS IN EMBRYONIC BRAIN 1516
DEVELOPMENT OF NGF RECEPTORS IN EMBRYONIC BRAIN 1524
MUSCARINIC ACETYLCHOLINE RECEPTOR FROM RAT BRAIN 1543
ACCUMULATION OF PHOSPHOCYCLOCREATINE IN CHICK MUSCLE 2049
THE PROSTAGLANDIN SYSTEM IN DEVELOPING LAMB BRAIN 3381
PHOSPHORYLATION BY BOVINE BRAIN PROTEIN KINASE 3993
ANDROGEN RECEPTORS IN RAT BRAIN 4047
GLUCOSE UTILIZATION AND NAD/NADH POTENTIALS 4127
CARBAMATE IN GLYCYLGLYCINE PLASMA AND TISSUE EXTRACTS 4398
SIMILARITIES BETWEEN CALCIUM-DEPENDENT REGULATORY PROTEINS 4501
SPHINGANINE KINASE OF BRAIN 4557
REGULATION OF ADENYLATE CYCLASE BY A CALCIUM-BINDING PROTEIN 4744
DELTA-9-TETRAHYDROCANNABINOL AND NADH-OXIDASE 5002
BUFFER AND PH EFFECTS ON BRAIN-SPECIFIC PROTEIN ACCUMULATION 5112
THYROID HORMONES AND BRAIN FATTY ACID ALPHA HYDROXYLATION 5237
P-ENZYME INTERMEDIATE IN THE GLUCOSE-1,6-P2 SYNTHASE 5431
PURIFIED NICOTINIC ACETYLCHOLINE RECEPTOR FROM BRAIN 6327
PARTICULATE NICOTINIC ACETYLCHOLINE RECEPTOR IN BRAIN 6335
DISTRIBUTION OF NEUROTENSIN 7445
STRUCTURING OF GANGLIOSIDE AGGREGATES 7603
GANGLIOSIDES OF HUMAN KIDNEY 7517
SQUID BRAIN MYOSIN 7682
BRAIN CELLS
CHOLINE UPTAKE AND METABOLISM IN BRAIN CELLS IN CULTURE 1392
BROMOACETYLETHANOLAMINE PHOSPHATE
ESSENTIAL LYSYL RESIDUE IN ALDOLASE 3057
AFFINITY LABELING OF PHOSPHOGLYCERATE MUTASE 4565
BROMODEOXYURIDINE
MITOCHONDRIAL DNA SYNTHESIS IN MOUSE L-CELLS 2938
CHONDROITIN SULFATE GLYCOSYLTRANSFERASES IN CHONDROCYTES 3346
BROMOPYRUVATE
BROMOPYRUVATE INACTIVATION OF GLUTAMATE DECARBOXYLASE 229
BROMOSUCCINIMIDE
CELL-CYCLE-SPECIFIC PHOSPHORYLATION SITES OF HISTONE F1 3685
BRUSH BORDER
SEE ALSO INTESTINES
SEE ALSO KIDNEY
PURIFICATION OF INTESTINAL BRUSH BORDER MEMBRANE PEPTIDASES 3199
PROPERTIES OF INTESTINAL BRUSH BORDER MEMBRANE PEPTIDASES 3206
PHYSICAL PROPERTIES OF TWO FORMS OF GLUTAMYLTRANSPEPTIDASE 7863
BUFFERS
BUFFER AND PH EFFECTS ON BRAIN-SPECIFIC PROTEIN ACCUMULATION 5112
BUNGAROTOXIN
SEE ALSO ACETYLCHOLINE
PURIFIED NICOTINIC ACETYLCHOLINE RECEPTOR FROM BRAIN 6327
PARTICULATE NICOTINIC ACETYLCHOLINE RECEPTOR IN BRAIN 6335
BUTANEDIONE
ARGINYL RESIDUES OF MITOCHONDRIAL ATPASE 1775
ESSENTIAL ARGINYL RESIDUES OF D-SERINE DEHYDRATASE 6179
BUTYRATE
GLYCINE + L-GLUTAMINE SPECIFIC ACYL-CO A NIACYLTRANSFERASES 3352
BUTYRIVIBRIO FIBRISOLVENS
CELL-FREE HYDROGENATION OF CIS-9, TRANS-11-OCTADECADIENOATE 2241
BUTYRYL CYCLIC AMP
SEE ALSO CYCLIC AMP
BUTYRYLGLYCINE
GLYCINE + L-GLUTAMINE SPECIFIC ACYL-CO A NIACYLTRANSFERASES 3352
B12
SEE ALSO VITAMIN B12

C

C-13
SEE ALSO CARBON-13
CA++-IONOPHORE
CA++-IONOPHORE ACTIVITY IN ATPASE FRAGMENT 4147
CADAVERINE
SEE ALSO DANSYLCADAVERINE
CADMIUM
ZINC-CHLORIDE ION EXCHANGE RATES IN CARBOXYPEPTIDASE A 403
PHOSPHORYL ALKALINE PHOSPHATASES 1202
CAFFEINE
ENZYMES INVOLVED IN VESICLE TRANSPORT 1181
CALCIFIDIOL
SEE ALSO VITAMIN D
CALCIUM
SEE ALSO ATPASE
SEE ALSO PARATHYROID HORMONE
SEE ALSO TRANSPORT, CALCIUM
SEE ALSO VITAMIN D
VITAMIN D2 HYDROXYLASES 24
NUCLEOTIDE METABOLIZING ENZYMES IN CHLAMYDOMONAS FLAGELLA 182
A NEW VITAMIN K-DEPENDENT PROTEIN 355
24, 25-DIHYDROXYVITAMIN D3 397
ADENINE NUCLEOTIDE LEVELS OF SPERM 787
CARDIAC TROPONIN 866
STOICHIOMETRY OF PROTON EJECTION DURING CALCIUM UPTAKE 968
METABOLISM OF 1-ALPHA-HYDROXYVITAMIN D3 1625
CARBON TETRACHLORIDE AND LIVER MICROSOMAL CALCIUM UPTAKE 1197
CORRECTION TO YANG + SRIVASTAVA VOL. 250 (1975) P.79 1531
TROPONIN-C-LIKE PROTEIN IN BOVINE ADRENAL MEDULLA 1683
ACTION OF FIBRIN-STABILIZING FACTOR IN CLOTTING PLASMA 1639
CYCLIC GMP, CA2-PLUS AND GLYCOGENOLYSIS BY LIVER CELLS 2987
NEW VITAMIN K-DEPENDENT ZYMOGEN 3052
GLYCOGENOLYSIS AND CARDIAC SARCOPLASMIC RETICULUM 3148
25-HYDROXYVITAMIN D3-1-ALPHA-HYDROXYLASE 3158
LANTHANIDE IONS AND METAL-DEPENDENT PROTHROMBIN ACTIVATION 3235
A23187 INCREASES POTASSIUM PERMEABILITY OF ERYTHROCYTES 3489
IONOPHORE A23187 ALTERS ERYTHROCYTE PHOSPHOLIPID METABOLISM 4162
THYROTROPIN RECEPTORS IN THYROID PLASMA MEMBRANES 4693
HORMONE-SENSITIVE RESEALED GHOSTS 4930
CALCIUM-INDUCED TRANSITION IN MITOCHONDRIA 5069
PLASMA LIPOPROTEINS AND PROTHROMBIN ACTIVATION 5233
CATION EFFECTS ON STEADY STATE MITOCHONDRIAL CALCIUM UPTAKE 5251
CALCIUM BINDING TO ADIPOCYTE PLASMA MEMBRANES 5345
A CALCIUM-DEPENDENT PROTHROMBIN TRANSITION 5648
INSULIN RELEASE METABOLISM OF GLUCOSE ANOMERS IN ISLETS 5936
MN-PROTHROMBIN INTERACTIONS 6294
CA2+-INDUCED CONFORMATIONAL CHANGE IN ADRENAL MEDULLA TN-C 6315
PHOSPHORYLATION OF THE SARCOPLASMIC RETICULUM MEMBRANE 6355
SPECTRAL CHANGES IN FACTOR X ASSOCIATED WITH ACTIVATION 6807
ROLE OF GAMMA-CARBOXYGLUTAMIC ACID 6886
ATPASE OF SARCOPLASMIC RETICULUM 6894
STIMULATION OF CALCIUM PUMP BY MONOVALENT CATIONS 6947
CALCIUM TRANSPORT BY ADIPOCYTE ENDOPLASMIC RETICULUM 7191
CA2+ AFFINITY TO PHOSPHORYLATED SR ATPASE 7275
CYCLIC NUCLEOTIDE PHOSPHODIESTERASE SECRETION FROM PLATELETS 7508
CALCIUM BINDING TO TROPONIN C 7551
SQUID BRAIN MYOSIN 7682
CALCIUM, BINDING
SEE ALSO BINDING PROTEINS
SEE ALSO BINDING SITES
CYCLIC 3-PRIME 5-PRIME-NUCLEOTIDE PHOSPHODIESTERASE 4193
CALCIUM, EFFECT ON ENZYME ACTIVITY
AN ENDO-1-6-D-MANNANASE FROM SOIL BACTERIA 174
BIOSYNTHESIS OF THE ATPASE OF SARCOPLASMIC RETICULUM 2030
KINETIC EFFECTS OF CALCIUM ON SARCOPLASMIC RETICULUM ATPASE 2307
REGULATION OF ESCHERICHIA COLI GLUTAMINASE B. III 3463
METAL ION ACTIVATION OF GALACTOSYL TRANSFERASE 3645
SEPARATION OF DIFFERENT MYOSINS BY ATP AND ACTIN COLUMNS 3972
COMPARISON OF CALCIUM-BINDING PROTEINS 4495
SIMILARITIES BETWEEN CALCIUM-DEPENDENT REGULATORY PROTEINS 4501
AUTOACTIVATION OF PHOSPHORYLASE KINASE 4521
EFFECTS OF SODIUM AZIDE ON RENAL CORTICAL CGMP 4651
REGULATION OF ADENYLATE CYCLASE BY A CALCIUM-BINDING PROTEIN 4744
PHOSPHOLIPID-PROTEIN INTERACTION IN CA++ ATPASE 5161
EPIDERMAL TRANSGLUTAMINASE 7281
CALCIUM, PUMP
SEE ALSO TRANSPORT, CALCIUM
ATP SYNTHESIS IN SARCOPLASMIC RETICULUM VESICLES 2055
CALCIUM, TRANSLOCATION
PHOSPHOLIPID-PROTEIN INTERACTION IN CA++ ATPASE 5161
CALCIUM, TRANSPORT
SEE ALSO TRANSPORT, CALCIUM
CALORIMETRY
CONFORMATIONAL PROPERTIES OF APO A-1 3749
CALORIMETRIC STUDIES OF THE INTERACTION OF MYOSIN WITH ADP 7499
CALSEQUESTRIN
TRYPTIC FRAGMENTS OF SARCOPLASMIC RETICULUM ATPASE 712
ARRANGEMENT OF PROTEINS IN SARCOPLASMIC RETICULUM 2037
RECONSTITUTION OF A CALCIUM PUMP IN SARCOPLASMIC RETICULUM 3169
BIOSYNTHESIS OF CALSEQUESTRIN 7733
CAMP
SEE ALSO CYCLIC AMP
SOLUBILIZATION NORMALIZES ADENYLATE CYCLASE ACTIVITY 7958
CAMPHOR
OXYGENATED CYTOCHROME P 450 1116
CANALINE
REACTIVITY OF PHOSPHOPYRIDOXAL IN CYSTATHIONASE 5267
CANAVANINE
PROTEIN DEGRADATION IN HUMAN FIBROBLASTS 3521
CANCER
SEE ALSO TUMORS
CANDIDA BOGORIENSIS
ACETYLTRANSFERASE FROM C. BOGORIENSIS 424
ACETYL- AND CARBOXYLESTERASES FROM C. BOGORIENSIS 431
CAP STRUCTURES
FORMATION OF REOVIRUS MRNA TERMINAL SEQUENCE M7-GPPPG-M-PC 5843
CARAGANA ARBORESCENS
TWO LECTINS FROM CARAGANA ARBORESCENS SEEDS 5929
CARBACHOL
CYCLIC GMP, CA2-PLUS AND GLYCOGENOLYSIS BY LIVER CELLS 2987
CARBAMATE
CARBAMATE IN GLYCYLGLYCINE PLASMA AND TISSUE EXTRACTS 4398
CARBAMYL PHOSPHATE
ESSENTIAL ARGININE OF ASPARTATE TRANSCARBAMYLASE 2688
ON THE MECHANISM OF FORMYLTETRAHYDROFOLATE SYNTHETASE 4159
BINDING OF CARBAMYL PHOSPHATE TO ASPARTATE TRANSCARBAMYLASE 5966
BINDING OF CARBAMYL PHOSPHATE TO ASPARTATE TRANSCARBAMYLASE 5966
13C NMR AND ASPARTATE TRANSCARBAMYLASE 5976
FILTER ASSAY TO ESTIMATE WEAK LIGAND BINDING TO ATCASE 5986
CARBAMYL PHOSPHATE SYNTHETASE
CARBAMYL PHOSPHATE SYNTHETASE FROM RAT LIVER MITOCHONDRIA 950
CONTROL OF PYRIMIDINE SYNTHESIS BY GUANINE AND GUANOSINE 1427
CARBAMYL TRANSFERASE
ESSENTIAL ARGININE OF ASPARTATE TRANSCARBAMYLASE 2688
CARBAMYLATION
RESONANCES OF 13-CO2 CARBAMINO ADDUCTS OF HEMOGLOBIN 477
THE PK OF LYS-258 IN ASPARTATE TRANSAMINASE 5663
MONOSPECIFIC ANTIBODIES TO SICKLE HEMOGLOBIN BETA CHAINS 6431
REACTIVITY OF CYANATE WITH VALINE-1(ALPHA) OF HEMOGLOBIN 7638
CARBAMYLCHOLINE
CYCLIC GMP IN PANCREATIC ACINAR CELLS 4640
CARBANIONS
OXIDATION OF TRANSALDOLASE INTERMEDIATE 4220
CARBOHYDRATES
SEE ALSO GLYCOLIPIDS
SEE ALSO GLYCOPROTEINS
SEE ALSO GLYCOSYLATION
STRUCTURE OF THE ACCUMULATING OLIGOSACCHARIDE IN FUCOSIDOSIS 5852
RICIN-RESISTANT MOUSE L CELL LINES 7761
CARBON DIOXIDE
SEE ALSO BICARBONATE
SEE ALSO CARBONIC ANHYDRASE
RESONANCES OF 13-CO2 CARBAMINO ADDUCTS OF HEMOGLOBIN 477

CIRCULAR DICHROISM OF BIOTIN CARBOXYL CARRIER PROTEIN 2063
NADH ACTIVATED PHOSPHOENOLPYRUVATE CARBOXYLASE 2754
VITAMIN K-DEPENDENT CARBOXYLATION 3269
CARBAMATE IN GLYCYLGLYCINE PLASMA AND TISSUE EXTRACTS 4398
OXYGEN-18 DEPLETION FROM CO2 IN ERYTHROCYTE SUSPENSIONS 4428
CARBON MAGNETIC RESONANCE
CARBON-13 MAGNETIC RESONANCE STUDIES OF HYDROXYETHYLTHIAMIN 2564
CARBON MONOXIDE
SEE ALSO CYTOCHROME P 450
SEE ALSO HEMOGLOBIN
REACTIONS OF RECONSTITUTED MYOGLOBINS WITH O2 AND CO 1418
OXYGEN AND CARBON MONOXIDE KINETICS OF GLYCERA HEMOGLOBIN 2579
CARBON MONOXIDE BINDING BY CYTOCHROME C OXIDASE 2861
STUDIES ON THE FOURTH STEP IN LIGAND BINDING TO HEMOGLOBIN 6692
CARBON TETRACHLORIDE
CARBON TETRACHLORIDE AND LIVER MICROSOMAL CALCIUM UPTAKE 1197
CCL-4 MEDIATED LIPID PEROXIDATION IN ISOLATED LIVER CELLS 4973
CARBON-13
SEE ALSO NUCLEAR MAGNETIC RESONANCE
RESONANCES OF 13-CO2 CARBAMINO ADDUCTS OF HEMOGLOBIN 477
13C NMR SPECTROSCOPY 2248
NMR STUDIES OF INTERACTION OF CR-ATP WITH PYRUVATE KINASE 2421
CARBON-13 MAGNETIC RESONANCE STUDIES OF HYDROXYETHYLTHIAMIN 2564
TITRATION OF TYROSINES IN MYOGLOBINS 5187
13C NMR AND ASPARTATE TRANSCARBAMYLASE 5976
CARBON 13 NMR STUDY OF REACTION OF LYSOZYME WITH IODINE 6522
MYOGLOBIN WITH 13C IN METHIONINE METHYLS 7452
C13 NMR STUDY-NONENZYMATIC REACTIONS OF PLP WITH AMINO ACIDS 7661
CARBONATE
SEE ALSO BICARBONATE
SEE ALSO CARBON DIOXIDE
CARBONIC ANHYDRASE
PH-DEPENDENT PROPERTIES OF HUMAN CARBONIC ANHYDRASE B 3862
OXYGEN-18 DEPLETION FROM CO2 IN ERYTHROCYTE SUSPENSIONS 4428
SUBSTRATE-INDUCED ALTERATIONS IN HUMAN CARBONIC ANHYDRASE B 4867
CARBONIC ANHYDRASE C SEQUENCE 5457
CARBONYL CYANIDE M-CHLOROPHENYLHYDRAZONE
SEE ALSO UNCOUPLING AGENTS
CARBOXAMIDOMETHYL ESTERS
CARBOXAMIDOMETHYL ESTER SUBSTRATES FOR CHYMOTRYPSIN 4722
CARBOXYGLUTAMATE
SEE ALSO VITAMIN K
A NEW VITAMIN K-DEPENDENT PROTEIN 355
VITAMIN K-DEPENDENT CARBOXYLASE 2770
NEW VITAMIN K-DEPENDENT ZYMOGEN 3052
VITAMIN K-DEPENDENT CARBOXYLATION 3269
A CALCIUM-DEPENDENT PROTHROMBIN TRANSITION 5648
PEPTIDE SUBSTRATE FOR VITAMIN K DEPENDENT CARBOXYLASE 5827
SOLUBILIZATION OF VITAMIN K DEPENDENT CARBOXYLASE 6238
ROLE OF GAMMA-CARBOXYGLUTAMIC ACID 6886
CARBOXYHEMOGLOBIN
SEE ALSO HEMOGLOBIN
CARBOXYKINASE
3-MERCAPTOPICOLINIC ACID. INHIBITION OF C-4 PHOTOSYNTHESIS 5824
CARBOXYL CARRIER PROTEIN
CIRCULAR DICHROISM OF BIOTIN CARBOXYL CARRIER PROTEIN 2063
CARBOXYLASE
CIRCULAR DICHROISM OF BIOTIN CARBOXYL CARRIER PROTEIN 2063
PEPTIDE SUBSTRATE FOR VITAMIN K DEPENDENT CARBOXYLASE 5827
CARBOXYLATION
VITAMIN K-DEPENDENT CARBOXYLASE 2770
VITAMIN K-DEPENDENT CARBOXYLATION 3269
SOLUBILIZATION OF VITAMIN K DEPENDENT CARBOXYLASE 6238
CARBOXYLESTERASE
ACETYL- AND CARBOXYLESTERASES FROM C. BOGORIENSIS 431
CARBOXYMETHYLATION
SEE ALSO PROTEIN, MODIFICATION
CARBOXYPEPTIDASE
PRONASE CARBOXYPEPTIDASE 204
ZINC-CHLORIDE ION EXCHANGE RATES IN CARBOXYPEPTIDASE A 483
PURIFICATION OF D-ALANINE CARBOXYPEPTIDASES I FROM E. COLI 414
CHARACTERIZATION OF ASCARIS CARBOXYPEPTIDASE INHIBITORS 2226
CARCINOGENESIS
SEE ALSO MUTAGENESIS
SEE ALSO TUMORS
CONTROL OF MONOOXYGENASE AND EPOXIDE HYDRATASE 79
RAT LIVER N-HYDROXY-2-ACETYLAMINOFLUORENE SULFOTRANSFERASE 6529
CARDIAC
SEE ALSO MUSCLE, CARDIAC
CARDIOLIPIN
SEE ALSO PHOSPHOLIPIDS
PHOSPHOLIPIDS AS IONOPHORES 1326
CARNITINE
EFFECT OF HYDROGEN SHUTTLES ON FATTY ACID OXIDATION 277
CO A/AC-CO A,NAD/NADH RATIOS + HEART PYRUVATE DEHYDROGENASE 5483
CARNITINE AND NEONATAL KETOSIS 6007
MITOCHONDRIAL CARNITINE ACYLCARNITINE TRANSLOCASE 6683
CARTILAGE
SEE ALSO CHONDROCYTE CELLS
BIOSYNTHESIS OF CHONDROITIN SULFATE 285
PROTEOGLYCAN-COLLAGEN INTERACTIONS 895
STIMULATION OF PROTEOGLYCAN SYNTHESIS BY SERUM FACTORS 3763
PROTEOGLYCAN SUBUNIT CORE PROTEIN 6439
CASEIN
PURIFICATION OF A VIRION PROTEIN KINASE 3176
CATABOLITE REPRESSION
REGULATION OF ADENYLATE CYCLASE BY PTS ENZYMES II 2462
CATALASE
SUPEROXIDE DECAY AND DIRECT ASSAY FOR SUPEROXIDE DISMUTASE 7504
CATECHOLAMINES
SEE ALSO ADRENALS
SEE ALSO EPINEPHRINE
SEE ALSO ISOPROTERENOL
EFFECTS OF PROTEIN KINASE ON SARCOPLASMIC RETICULUM 725
BETA-ADRENERGIC RECEPTORS OF CULTURED CELLS 1221
IODINATED BETA-ADRENERGIC BLOCKER 1232
TROPONIN-C-LIKE PROTEIN IN BOVINE ADRENAL MEDULLA 1603
INTERNAL PH OF CHROMAFFIN VESICLES 2189
SOLUBLE BETA-ADRENERGIC RECEPTORS 2374
CYCLIC GMP, CA2-PLUS AND GLYCOGENOLYSIS BY LIVER CELLS 2987
ADIPOCYTE BETA-ADRENERGIC RECEPTORS 3096
CATECHOLAMINE INACTIVATION OF PHENYLALANINE HYDROXYLASE 3671
REGULATION OF ADENYLATE CYCLASE BY ADENOSINE 4239
NUCLEOTIDES REGULATE BETA-ADRENERGIC RECEPTORS 4686
HORMONE-SENSITIVE RESEALED GHOSTS 4930
NEGATIVE COOPERATIVITY AMONG BETA-ADRENERGIC RECEPTORS 5607
ALPHA-ADRENERGIC ACTIVATION OF HEPATIC GLUCOSE OUTPUT I. 5208
ALPHA-ADRENERGIC ACTION IN LIVER. II 5209
DNA SYNTHESIS AND CELL DIFFERENTIATION IN CARDIAC MUSCLE 6682
ACTIVATION AND INHIBITION OF ADENYLATE CYCLASE BY FLUORIDE 6205
CA2+-INDUCED CONFORMATIONAL CHANGE IN ADRENAL MEDULLA TN-C 6315
IDENTIFICATION OF ALPHA-ADRENERGIC RECEPTORS 6915
REFRACTORINESS BY ISOPROTERENOL IN MUTANT CELLS 7572
HORMONAL CONTROL OF DIHYDROXYACETONE AND GLYCEROL METABOLISM 7841
CATFISH
BIOCHEMISTRY OF TASTE. STIMULUS BINDING TO RECEPTORS 88
CATHEPSINS
CATHEPSIN D FROM PORCINE SPLEEN 4528
CATIONS
SEE ALSO CALCIUM
SEE ALSO MAGNESIUM
SEE ALSO MANGANESE
SEE ALSO POTASSIUM
SEE ALSO SODIUM
CONFORMATIONS OF PYRUVATE KINASE BY MONOVALENT CATIONS 73
CATION EFFECTS ON STEADY STATE MITOCHONDRIAL CALCIUM UPTAKE 5251
STIMULATION OF CALCIUM PUMP BY MONOVALENT CATIONS 6947
CDP
ACTIVE SITE OF RIBONUCLEOSIDE DIPHOSPHATE REDUCTASE 1398
BINDING OF SUBSTRATES TO RIBONUCLEOTIDE REDUCTASE 3616
CDP-DIGLYCERIDE
PHOSPHATIDYLSERINE SYNTHETASE MUTANTS OF ESCHERICHIA COLI 3242
METABOLIC FATE OF 3,4-DIHYDROXYBUTYL-1-PHOSPHONATE IN E.COLI 6717
CELITE
SUBUNIT INTERACTIONS OF BLACK-EYED PEA PROTEIN INHIBITORS 747
CELL CYCLE
PROTEIN KINASES DUFING THE CELL CYCLE 3313
CELL-CYCLE-SPECIFIC PHOSPHORYLATION SITES OF HISTONE F1 3685
NUCLEAR LOCATION OF MAMMALIAN DNA POLYMERASE ACTIVITIES 7893
PROTEIN KINASE IN THE OUTER MEMBRANE OF 3T3 AND SV3T3 CELLS 7899
CELL DENSITY
PROTEIN KINASE IN THE OUTER MEMBRANE OF 3T3 AND SV3T3 CELLS 7899
CELL HYBRIDIZATION
ALPHA-AMANITIN-RESISTANT RNA POLYMERASE II 2729
CELL SURFACE GLYCOSYLTRANSFERASE
UTILIZATION OF EXOGENOUS GDP-MANNOSE BY OVIDUCT CELLS 2511
CELL SURFACES
SEE ALSO LECTINS
SEE ALSO MEMBRANES
SEE ALSO RECEPTORS
SEE ALSO SURFACES, CELL
SEE ALSO WALLS, CELL
PROTEIN KINASE IN THE OUTER MEMBRANE OF 3T3 AND SV3T3 CELLS 7899
CELL WALLS
SEE ALSO WALLS, CELL
CELLS IN CULTURE
SEE ALSO SPECIFIC CELL TYPE
CELLS, FAT
SEE ALSO FAT CELLS
CELLS, FIBROBLASTS
SEE ALSO FIBROBLAST CELLS
CELLS, KB
NUCLEAR LOCATION OF MAMMALIAN DNA POLYMERASE ACTIVITIES 7893
CELLS, LYMPHOCYTE
SEE ALSO LYMPHOCYTE CELLS
CELLS, RED BLOOD
SEE ALSO RED BLOOD CELLS
CELLS, 3T3
SEE ALSO FIBROBLAST CELLS
PURIFICATION OF AN ENDONUCLEASE FROM NUCLEI OF 3T3 CELLS 7746
NUCLEAR LOCATION OF MAMMALIAN DNA POLYMERASE ACTIVITIES 7893
PROTEIN KINASE IN THE OUTER MEMBRANE OF 3T3 AND SV3T3 CELLS 7899
CELLULOSE
KINETIC ANALYSIS OF DIFFERENTIATION IN D. DISCOIDEUM 6252
CERAMIDES
SEE ALSO GANGLIOSIDES
SEE ALSO GLYCOLIPIDS
SEE ALSO GLYCOSPHINGOLIPIDS
SEE ALSO SPHINGOLIPIDS
BIOSYNTHESIS OF SIALOSYLGALACTOSYLCERAMIDE 198
ACTIVATOR STIMULATING THE ENZYMIC HYDROLYSIS OF GLYCOLIPIDS 1159
ALPHA-FUCOPYRANOSYL-CERAMIDE 2385
COMPOSITION AND STRUCTURE OF LIPOPHOSPHONOGLYCAN 2976
CEREBRATULUS LACTEUS
SEQUENCE OF CEREBRATULUS LACTEUS NEUROTOXIN B-IV 6625
CEREBROSIDES
THYROID HORMONES AND BRAIN FATTY ACID ALPHA HYDROXYLATION 5237
CHARGE DENSITIES
CARBON-13 MAGNETIC RESONANCE STUDIES OF HYDROXYETHYLTHIAMIN 2564
CHARGE TRANSFER COMPLEXES
ADRENODOXIN REDUCTASE INTERACTION WITH PYRIDINE NUCLEOTIDES 4299
OXIDATION-REDUCTION POTENTIALS OF LIPOAMIDE DEHYDROGENASE 3956
INTACT OLD YELLOW ENZYME VIA SINGLE CHROMATOGRAPHIC STEP 5321
CHARGE-TRANSFER COMPLEXES OF OLD YELLOW ENZYME 5327
ADRENODOXIN REDUCTASE ADRENODOXIN 1 1 COMPLEX+ PROPERTIES 7545
CHEMILUMINESCENCE
SEE ALSO LUMINESCENCE
CHEMIOSMOTIC
BIOLOGICAL ELECTRIC GENERATORS. BACTERIORHODOPSIN 7899
CHEMIOSMOTIC HYPOTHESIS
SEE ALSO MEMBRANES
SEE ALSO TRANSPORT
STOICHIOMETRY OF PROTON EJECTION DURING CALCIUM UPTAKE 968
OXIDATIVE PHOSPHORYLATION IN VESICLES OF E. COLI 5315
STOICHIOMETRY OF MITOCHONDRIAL PROTON EJECTION 5670
BIOLOGICAL ELECTRIC GENERATORS. BACTERIORHODOPSIN 7059
BIOLOGICAL ELECTRIC GENERATORS. CHLOROPHYLL COMPLEXES 7066
BIOLOGICAL ELECTRIC GENERATORS. CYTOCHROME OXIDASE 7072
BIOLOGICAL ELECTRIC GENERATORS. H-PLUS-ATPASE 7077
MITOCHONDRIAL H+/SITE RATIO 7442
CHENODEOXYCHOLATE
BILE ACID PATHWAYS IN MAN 6388
CHINESE HAMSTER OVARY CELLS
SEE ALSO OVARY CELLS
CHITIN SYNTHETASE
YEAST CHITIN SYNTHETASE ACTIVATING FACTOR 3367
CHLAMYDOMONAS REINHARDI
ORGANIZATION OF CHLOROPLAST MEMBRANES IN C. REINHARDI 247
CHLORAL HYDRATE CAUSES BREAKDOWN OF POLYSOMES IN VIVO 2637
CHLAMYDOMONAS REINHARDTII
NUCLEOTIDE METABOLIZING ENZYMES IN CHLAMYDOMONAS FLAGELLA 182
PHOSPHORYLATION AXONEMAL PROTEINS IN CHLAMYDOMONAS 2161
CHLORAL HYDRATE
HORSE LIVER ALDEHYDE DEHYDROGENASE ISOZYMES 236
CHLORAL HYDRATE CAUSES BREAKDOWN OF POLYSOMES IN VIVO 2637
CHLORAMPHENICOL
POST-TRANSCRIPTIONAL CONTROL OF BETA-GALACTOSIDASE SYNTHESIS 2854
CHLORIDE
CHLORIDE PEROXIDATION BY MYELOPEROXIDASE 1371
CORRECTION TO HARRISON + SCHULTZ VOL. 251 (1976) P. 1371 3197
CHLORIDE-35
ZINC-CHLORIDE ION EXCHANGE RATES IN CARBOXYPEPTIDASE A 483

CHLORINATION
COMPOUND X 6340
CHLORINATION, ACTIVE SITE
CHLORINATION OF D-AMINO ACID OXIDASE BY N-CHLORO-D-LEUCINE 6150
CHLORITE
COMPOUND X 6340
CHLOROADENOSINE
REGULATION OF NEUROBLASTOMA ADENYLATE CYCLASE 3399
REGULATION OF ADENYLATE CYCLASE BY ADENOSINE 4239
CHLOROKETONE
ANTHRANILATE SYNTHETASE 941
CHLOROLEUCINE
CHLORINATION OF D-AMINO ACID OXIDASE BY N-CHLORO-D-LEUCINE 6150
CHLOROMERCURIBENZOATE
SEE ALSO SULFHYDRYLS
CHLOROMETHYL KETONE
HALOMETHYL KETONES FORM TETRAHEDRAL ADDUCTS WITH SUBTILISIN 1097
CHLORONITROBENZENES
A MECHANISM FOR THE GLUTATHIONE TRANSFERASES 6183
CHLOROPEROXIDASE
CHLORIDE PEROXIDATION BY MYELOPEROXIDASE 1371
CORRECTION TO HARRISON + SCHULTZ VOL. 251 (1976) P. 1371 3197
COMPOUND X 6340
CHLOROPHENYLALANINE
ACTION OF P-CHLOROPHENYLALANINE OF PHENYLALANINE HYDROXYLASE 3677
CHLOROPHYLL
BIOLOGICAL ELECTRIC GENERATORS. CHLOROPHYLL COMPLEXES 7666
CHLOROPLASTS
ORGANIZATION OF CHLOROPLAST MEMBRANES IN C. REINHARDI 247
PHOTOPHOSPHORYLATION AND INTERNAL H-PLUS CONCENTRATION 1610
SITES OF SYNTHESIS OF MAJOR PROTEINS IN PLANT LEAF TISSUE 2848
CHLOROPLAST PHOSPHORYLATION 4165
CHLOROPLAST NADP-GLYCERALDEHYDE 3-PHOSPHATE DEHYDROGENASE 6456
NUCLEOTIDE EXCHANGE INTO COUPLING FACTOR 1 6874
CHEMICAL CROSS-LINKING OF CHLOROPLAST COUPLING FACTOR 1 6953
ENERGY-DEPENDENT AMINO GROUP EXPOSURE ON CHLOROPLAST CF1 7168
ACID-INDUCED PHOSPHORYLATION OF BOUND ADP 7417
SYNTHESIS OF ATP BY ISOLATED CF1 VIA TRANSPHOSPHORYLATION 7796
CHLOROQUINE
RAT HIGH DENSITY LIPOPROTEIN CATABOLISM 4914
CHLOROSULFOLIPIDS
OCHROMONAS FLAGELLAR MEMBRANE ISOLATION AND CHARACTERIZATION 1828
LIPID COMPOSITION OF OCHROMONAS DANICA FLAGELLAR MEMBRANE 1835
CHOLATE
BILE ALCOHOL METABOLISM IN RABBIT LIVER 2709
BIOSYNTHESIS OF CHOLIC ACID 3495
BILE ACID PATHWAYS IN MAN 6308
CHOLECALCIFEROL
SEE ALSO VITAMIN D
CHOLECYSTOKININ
CYCLIC GMP IN PANCREATIC ACINAR CELLS 4640
CHOLERA TOXIN
ROLE OF GANGLIOSIDE STRUCTURE IN CHOLERAGEN RESPONSE 4490
FAT CELL CHOLERA TOXIN RECEPTOR 7610
CHOLERAGEN
ACTIVATION AND INHIBITION OF ADENYLATE CYCLASE BY FLUORIDE 6205
CHOLESTANE
BILE ACID PATHWAYS IN MAN 6308
CHOLESTEROL
SEE ALSO MEVALONATE
SEE ALSO STEROIDS
REGULATION OF HMG CO A REDUCTASE IN HTC CELLS 1745
ADRENAL CLEAVAGE OF A 20-PHENYL ANALOG OF CHOLESTEROL 2087
INTERACTION OF SWINE LIPOPROTEINS WITH THE LDL RECEPTOR 2395
RETURN OF LDL RESPONSE IN ACID LIPASE-DEFICIENT FIBROBLASTS 3277
LIGAND BINDING TO TWO ADRENAL MITOCHONDRIAL P450 CYTOCHROMES 3706
PURIFICATION OF 3-HYDROXY-3-METHYLGLUTARYL CO A REDUCTASE 3815
DISSOCIATION OF HMG-CO A REDUCTASE ACTIVITY 3831
CORRECTION TO REMSEN ET AL VOL. 251 (1976) P. 2395 3838
STEROL CARRIER PROTEIN 5496
MICHAELIS-MENTEN CONSTANT FOR HMG-CO A REDUCTASE 5820
BILE ACID PATHWAYS IN MAN 6308
RELIPIDATION OF APOLIPOPROTEINS 6367
METHYL STEROL OXIDASE 6638
TEMPERATURE EFFECTS ON ADRENAL CORTICAL CYT P-450SCC 7120
STEROIDOGENESIS, C-17,20 AND C-20, 22 SIDE CHAIN CLEAVAGE 7336
CHOLESTEROL ESTER HYDROLASE
C-AMP ACTIVATION OF ACYL HYDROLASES IN ADIPOSE TISSUE 2882
CHOLESTEROL SIDE-CHAIN DESMOLASE
ADRENAL MITOCHONDRIAL P 450 6068
CHOLINE
CHOLINE UPTAKE AND METABOLISM IN BRAIN CELLS IN CULTURE 1392
PURIFICATION OF THE PNEUMOCOCCAL AUTOLYSIN (AMIDASE) 4199
MAMMALIAN MEMBRANES WITH ALTERED PHOSPHOLIPID COMPOSITION 5015
PHYSICAL PROPERTIES OF MEMBRANES WITH ALTERED PHOSPHOLIPIDS 6747
CHOLINE KINASE
EQUILIBRIUM CONSTANT OF PHOSPHORYLCHOLINE HYDROLYSIS 7162
CHOLINERGIC AGENTS
SEE ALSO ACETYLCHOLINE
CYCLIC GMP IN PANCREATIC ACINAR CELLS 4640
CHONDROCYTE CELLS
CHONDROITIN SULFATE GLYCOSYLTRANSFERASES IN CHONDROCYTES 3346
PROTEOGLYCANS FROM CHICK LIMB BUD CHONDROCYTES 3511
GLUCOSE EFFECT ON KINETICS OF MUCOPOLYSACCHARIDE SYNTHESIS 6210
CHONDROITIN SULFATE
SEE ALSO CHONDROCYTE CELLS
SEE ALSO PROTEOGLYCAN
BIOSYNTHESIS OF CHONDROITIN SULFATE 285
PROTEOGLYCAN-COLLAGEN INTERACTIONS 895
CORRECTION TO YANG + SRIVASTAVA VOL. 250 (1975) P.79 1531
CHONDROITIN SULFATE GLYCOSYLTRANSFERASES IN CHONDROCYTES 3346
BIOSYNTHESIS OF CHONDROITIN SULFATE 3942
GLUCOSE EFFECT ON KINETICS OF MUCOPOLYSACCHARIDE SYNTHESIS 6210
GLYCOSAMINOGLYCAN BIOSYNTHESIS DURING CORNEAL DEVELOPMENT 6513
CHONDROITINASE
CHONDROITINASE C 1154
CHORIOGONADOTROPIN
SEE ALSO GONADOTROPIN
SYNTHESIS OF HPL AND HCG BY PLACENTAL POLYRIBOSOMES AND MRNA 2945
GONADOTROPIN RECEPTORS IN CORPUS LUTEUM PLASMA MEMBRANES 7398
PHOSPHOLIPID ROLE IN CORPUS LUTEUM GONADOTROPIN RECEPTORS 7405
CHORISMATE
ANTHRANILATE SYNTHETASE 941
CHROMAFFIN GRANULES
CHROMAFFIN GRANULE MEMBRANE POTENTIAL 4544
CHROMATIN
SEE ALSO DNA
SEE ALSO HISTONES
SEE ALSO PROTEIN, NUCLEAR
RECEPTOR-STEROID COMPLEX INTERACTIONS WITH ACCEPTOR SITES 334
NUCLEAR ESTROGEN RECEPTOR AND INITIATION OF RNA SYNTHESIS 516
IN VITRO SYNTHESIS OF OVALBUMIN MRNA 524
EFFECT OF ESTROGEN ON GENE EXPRESSION IN THE CHICK OVIDUCT 1137
DNA-BINDING NON-HISTONE PROTEINS 1471
EFFECT OF ESTROGEN ON GENE EXPRESSION IN CHICK OVIDUCT 1960
1-ALPHA, 25-DIHYDROXYVITAMIN D3-STIMULATED TEMPLATE ACTIVITY 2388
RNA AND PROTEIN OF NUCLEAR RIBONUCLEOPROTEIN AND CHROMATIN 2592
CELL-CYCLE-SPECIFIC PHOSPHORYLATION SITES OF HISTONE F1 3685
HISTONES OF NEUROSPORA CRASSA 4131
EFFECTS OF ESTROGEN ON GENE EXPRESSION ROLE OF NONHISTONE 4713
PROGESTERONE RECEPTOR REGULATION OF CHROMATIN TRANSCRIPTION 5166
STEROID RECEPTOR SUBUNIT EFFECTS ON CHROMATIN TRANSCRIPTION 5178
EFFECT OF ESTROGEN ON GENE EXPRESSION IN THE CHICK OVIDUCT 5565
PROTEIN A24 NH2- AND COOH-TERMINAL SEQUENCE 5901
NON-HISTONES ARE POSITIVE REGULATION OF OVALBUMIN GENE 6475
H5 HISTONE AND DNA-RELAXING ENZYME OF CHICKEN ERYTHROCYTES 7363
DNA BINDING OF THYROID HORMONE RECEPTORS 7388
NUCLEAR THYROID HORMONE RECEPTORS 7388
NUCLEAR LOCATION OF MAMMALIAN DNA POLYMERASE ACTIVITIES 7693
CHROMATOGRAPHY, AFFINITY
PROTEIN INHIBITOR OF ACID DEOXYRIBONUCLEASES 116
RESOLUTION OF CYTOCHROME OXIDASES.ENZYMES WITH FIVE SUBUNITS 257
PURIFICATION OF HUMAN PLATELET FACTOR 4 324
PURIFICATION OF TWO BLACK-EYED PEA PROTEASE INHIBITORS 734
HUMAN GALACTOSE-1-PHOSPHATE URIDYLYLTRANSFERASE 1057
PURIFICATION AND MECHANISM STUDIES ON CITRATE SYNTHASE 1476
THROMBIN-LIKE ENZYME FROM BOTHROPS ATROX VENOM 1663
RIBONUCLEASE QUANTITATIVE AFFINITY CHROMATOGRAPHY 2344
NUCLEIC ACID HELIX-UNWINDING PROTEINS FROM CALF THYMUS 2124
STUDIES OF HUMAN KIDNEY GAMMA-GLUTAMYL TRANSPEPTIDASE 2271
HUMAN CYTOPLASMIC AND MITOCHONDRIAL DEOXYTHYMIDINE KINASE 2600
PURIFICATION OF HERPES SIMPLEX VIRUS DEOXYTHYMIDINE KINASE 2605
CHARACTERIZATION OF K8 ALKALINE PHOSPHATASE 2620
YEAST CHITIN SYNTHETASE ACTIVATING FACTOR 3367
SUBUNIT INTERACTIONS OF PHOSPHO- + DEPHOSPHO- PROTEIN KINASE 3375
AFFINITY CHROMATOGRAPHY FORMS OF HUMAN PLASMINOGEN + PLASMIN 3693
RNASE III CLEAVAGE OF SINGLE-STRANDED RNA 3807
SUBSTANTIAL PURIFICATION OF THE OVALBUMIN CODING DNA STRAND 3868
SEPARATION OF DIFFERENT MYOSINS BY ATP AND ACTIN COLUMNS 3972
PURIFICATION OF HUMAN ERYTHROCYTE ADENOSINE DEAMINASE 4026
HIGH MOLECULAR WEIGHT FORMS OF ACTH ARE GLYCOPROTEINS 4121
MANNOSYL GLYCOPEPTIDES AND CELL GROWTH STATUS 4673
NEUROSPORA CRASSA GLUTAMINE SYNTHETASE 4787
PURIFICATION OF HUMAN LEUKOCYTE INTERFERON COMPONENTS 4810
INTACT OLD YELLOW ENZYME VIA SINGLE CHROMATOGRAPHIC STEP 5321
BINDING OF INTERFERONS TO IMMOBILIZED AROMATIC AMINO ACIDS 5381
IMMUNOADSORBENT PURIFICATION OF HLA ANTIGEN 5427
STRUCTURE OF PLANT CELL WALLS 5904
TWO LECTINS FROM CARAGANA ARBORESCENS SEEDS 5929
ADRENAL MITOCHONDRIAL P 450 6068
THE ENDOPEPTIDASE POST-PROLINE CLEAVING ENZYME 7593
LIPOPROTEIN LIPASE FROM BOVINE MILK 7791
CHROMATOGRAPHY, GEL
SELF-ASSOCIATION OF CYTOCHROME 35 IN AQUEOUS SOLUTION 2113
SELF-ASSOCIATION OF RHESUS MONKEY APOLIPOPROTEIN A-I 7437
CHROMATOGRAPHY, HIGH PRESSURE LIQUID
CLEAVAGE OF PHYCOCYANOBILIN FROM C-PHYCOCYANIN 2485
CHROMATOGRAPHY, HYDROPHOBIC
BINDING OF INTERFERONS TO IMMOBILIZED AROMATIC AMINO ACIDS 5381
CHROMATOGRAPHY, INTERVENT DILUTION
LIPOPROTEIN LIPASE FROM BOVINE MILK 7791
CHROMIUM
SUBSTRATE CONFORMATIONS ON PYRUVATE KINASE 2431
CR(III) AND INORGANIC PYROPHOSPHATASE 2611
PH-DEPENDENT EFFECTS OF CR(NH3)2ATP ON HEXOKINASE KINETICS 7521
CHROMIUM-ATP
INHIBITION OF PYRUVATE CARBOXYLASE BY CHROMIUM NUCLEOTIDES 320
NMR STUDIES OF INTERACTION OF CR-ATP WITH PYRUVATE KINASE 2421
CHROMOSOMES
SEE ALSO PROTEIN, NUCLEAR
CHYLOMICRONS
DISSOCIATION OF HMG-CO A REDUCTASE ACTIVITY 3831
CHYMOTRYPSIN
CHYMOTRYPSIN DIMERIZATION 498
PURIFICATION OF TWO BLACK-EYED PEA PROTEASE INHIBITORS 734
HALF-SITE REACTIVITY IN PROTEASE-INHIBITOR COMPLEXES 754
ENERGETICS OF PROTEASE-BLACK-EYED PEA INHIBITOR INTERACTIONS 763
ENERGY TRANSFER STUDIES ON PROTEASE INHIBITOR COMPLEXES 769
ENZYME (CHYMOTRYPSIN) ATTACK ON POLYMER SIDE CHAINS 2083
SPECIFICITY OF CHYMOTRYPSIN WITH CARBOXYL GROUPS BLOCKED 2353
CARBOXAMIDOMETHYL ESTER SUBSTRATES FOR CHYMOTRYPSIN 4722
CILIENIC ACID
UNSATURATED FATTY ACID SYNTHESIS IN TETRAHYMENA 7588
CIRCADIAN RHYTHM
STEROID REGULATION OF ENZYME SYNTHESIS IN RAT LIVER IN VIVO 2571
CIRCULAR DICHROISM
SEE ALSO PROTEIN, CONFORMATION
OPTICAL PROPERTIES OF BLACK-EYED PEA PROTEASE INHIBITORS 741
ENERGY TRANSFER STUDIES ON PROTEASE INHIBITOR COMPLEXES 769
LIPID ACTIVATION OF A MEMBRANE ENZYME. BIOPHYSICAL STUDIES 1270
TERNARY COMPLEXES OF THYMIDYLATE SYNTHETASE 1363
ALLOSTERIC TRANSITIONS IN COBALT HEMOGLOBINS 1670
CIRCULAR DICHROISM OF BIOTIN CARBOXYL CARRIER PROTEIN 2063
TYROSINE RESIDUES IN PORCINE MUSCLE ADENYLATE KINASE 3621
CIRCULAR DICHROISM OF BOWMAN-BIRK TRYPSIN INHIBITOR 3411
CHEMICALLY PREPARED AND TISSUE-ENDOGENOUS APOFERRITINS 3856
STRUCTURAL RELEVANCE OF BETA6GLU-VAL MUTATION IN HEMOGLOBIN 4968
TRYPSIN-SUSCEPTIBLE PEPTIDE BONDS IN ENTEROTOXIN C 5580
ADRENAL MITOCHONDRIAL P 450 6068
EFFECTS OF RNASE BINDING ON DNA CONFORMATION AND STABILITY 7198
EFFECTS OF GENE 32-PROTEIN BINDING ON DNA CONFORMATION 7215
ELECTRONIC STATE OF HEME IN CYTOCHROME OXIDASE 7907
CITRATE
STRUCTURE OF ATP CITRATE LYASE 5242
LIGAND INDUCED STRUCTURAL CHANGES IN PHOSPHOFRUCTOKINASE 5637
LIPID ACCUMULATION IN YEAST DUE TO INOSITOL DEFICIENCY 5759
PHOSPHOFRUCTOKINASE REGULATION IN A THYROID TUMOR 6244
CONTROL OF PHOSPHOFRUCTOKINASE FROM SKELETAL MUSCLE 7322
CITRATE LYASE
BIOCHEMICAL AND ULTRASTRUCTURE CHANGES IN B12 DEFICIENCY 2147
SUBUNIT STRUCTURE AND CHEMICAL COMPOSITION OF CITRATE LYASE 2911
LIPOGENIC DIFFERENTIATION IN CELL CULTURE 6462
CITRATE SYNTHASE
PURIFICATION AND MECHANISM STUDIES ON CITRATE SYNTHASE 1476
BIOCHEMICAL AND ULTRASTRUCTURE CHANGES IN B12 DEFICIENCY 2147
BIOCHEMICAL AND ULTRASTRUCTURE CHANGES IN B12 DEFICIENCY 2155
CITRULLINE
COMPARTMENTATION OF ORNITHINE IN NEUROSPORA 3948
CLEARANCE IN VIVO
PHENYLALANINE AMMONIA-LYASE INDUCTION PURIFICATION CLEARANCE 4646
CLOSTRIDIUM ACIDI-URICI
SYNTHESIS OF C. ACIDI-URICI FERREDOXIN DERIVATIVES 1675

MIDPOINT REDUCTION POTENTIAL OF C. ACIDI-URICI FERREDOXIN 1683
TRANSLATION SPECIFICITY OF BACTERIAL RIBOSOMES AND MRNA 2499
CLOSTRIDIUM CYCLINDROSPORUM
ON THE MECHANISM OF FORMYLTETRAHYDROFOLATE SYNTHETASE 4159
CLOSTRIDIUM LENTOPUTRESCENS
LEUCINE 2,3-AMINOMUTASE, AN ENZYME OF LEUCINE CATABOLISM 1859
CLOSTRIDIUM PASTEURIANUM
MIDPOINT REDUCTION POTENTIAL OF C. ACIDI-URICI FERREDOXIN 1683
TRANSLATION SPECIFICITY OF BACTERIAL RIBOSOMES AND MRNA 2499
CLOSTRIDIUM SPOROGONES
LEUCINE 2,3-AMINOMUTASE, AN ENZYME OF LEUCINE CATABOLISM 1859
CLOSTRIDIUM STICKLANDII
PROLINE REDUCTASE PURIFICATION AND PROPERTIES 2435
CLOSTRIDIUM TETANOMORPHUM
TRANSLATION SPECIFICITY OF BACTERIAL RIBOSOMES AND MRNA 2499
CLOTTING, BLOOD
SEE ALSO BLOOD CLOTTING
SEE ALSO FACTOR XII
SEE ALSO PLATELETS
SEE ALSO THROMBIN
SEE ALSO VITAMIN K
PURIFICATION OF HUMAN PLATELET FACTOR 4 324
ACTION OF FIBRIN-STABILIZING FACTOR IN CLOTTING PLASMA 1639
PLATELET FACTOR FOUR 4273
MECHANISM OF ACTIVATION OF BOVINE FACTOR VII 4797
A CALCIUM-DEPENDENT PROTHROMBIN TRANSITION 5648
ALPHA-2-PLASMIN INHIBITOR IN HUMAN PLASMA 5956
CO A
SEE ALSO ACETYL CO A
SEE ALSO COENZYME A
SEE ALSO PALMITOYL CO A
COAGULATION
SEE ALSO BLOOD CLOTTING
SEE ALSO CLOTTING, BLOOD
COBALAMIN
SEE ALSO VITAMIN B12
MECHANISM OF A COBALAMIN-DEPENDENT ENZYME 3734
COBALT
SEE ALSO VITAMIN B12
PRONASE CARBOXYPEPTIDASE 264
ZINC-CHLORIDE ION EXCHANGE RATES IN CARBOXYPEPTIDASE A 403
31-P NMR OF PHOSPHATE COMPLEXES OF PHOSPHATASE 1207
REVERSIBLE RESOLUTION OF A MANGANIC SUPEROXIDE DISMUTASE 1217
LEUCINE AMINOPEPTIDASE (BOVINE LENS) COBALT ENZYME 1618
ALLOSTERIC TRANSITIONS IN COBALT HEMOGLOBINS 1670
STRUCTURE OF CREATINE KINASE-SUBSTRATE COMPLEXES 2777
STRUCTURE OF CREATINE KINASE-SUBSTRATE COMPLEXES 2777
METAL(II) ION, ANION EFFECTS ON P-ENOLPYRUVATE CARBOXYKINASE 2916
ALPHA-D-MANNOSIDASE OF RAT LIVER CYTOSOL 3845
PH-DEPENDENT PROPERTIES OF HUMAN CARBONIC ANHYDRASE B 3862
EFFECT OF COBALT ON SYNTHESIS OF HEME AND CYTOCHROME P 450 4421
CORRECTION TO OSE AND FRIDOVICH VOL. 251 (1976) P. 1217 4796
COBRA TOXIN
AFFINITY PARTITIONING OF MEMBRANES 858
COENZYME A
SEE ALSO ACETYL CO A
SEE ALSO SUCCINYL CO A
PURIFICATION AND MECHANISM STUDIES ON CITRATE SYNTHASE 1476
ACYL SELECTIVITIES OF ACYLTRANSFERASES IN E. COLI 2437
GLYCINE + L-GLUTAMINE SPECIFIC ACYL-CO A NTACYLTRANSFERASES 3352
ACP METABOLISM AND REGULATION IN LACTOBACILLUS 4706
CO A/AC-CO A,NAD/NADH RATIOS + HEART PYRUVATE DEHYDROGENASE 5483
COENZYME Q REDUCTASE
A RESPIRATION-DEFICIENT CHINESE HAMSTER CELL LINE 4588
COLCHICINE
COLCHICINE INHIBITION OF HEPATIC GLYCOPROTEIN SECRETION 3887
IMMUNOSORPTION OF MICROTUBULE PROTEIN 6135
COLD INACTIVATION
PREPARATION OF YEAST (S. CEREVISIAE) PYRUVATE KINASE 124
REGULATION OF ESCHERICHIA COLI GLUTAMINASE B. I 3447
PH INDUCED STRUCTUPAL CHANGES IN PHOSPHOFRUCTOKINASE 5630
LIGAND INDUCED STRUCTURAL CHANGES IN PHOSPHOFRUCTOKINASE 5637
COLD-INSOLUBLE GLOBULIN
ACTION OF FIBRIN-STABILIZING FACTOR IN CLOTTING PLASMA 1639
COLICINS
COLICINS CAUSE DISAPPEARANCE OF MEMBRANE PROTEINS 7577
COLIPASE
COFACTOR EFFECTS ON PROPERTIES OF LIPASE B AT AN INTERFACE 378
MECHANISM OF ACTION OF COFACTORS ON LIPASE B ACTIVITY 384
COLLAGEN
SEE ALSO PROCOLLAGEN
L-3,4-DEHYDROPROLINE AND COLLAGEN METABOLISM 503
SYNTHESIS OF BASEMENT MEMBRANE COLLAGEN BY ENDOTHELIUM 730
PROTEOGLYCAN-COLLAGEN INTERACTIONS 895
BASEMENT MEMBRANE PROCOLLAGEN IN PARIETAL YOLK SAC CULTURES 1789
DISULFIDE LINKING OF PRO-ALPHA CHAINS 3530
SUBUNIT COMPOSITION OF THE GLOMERULAR BASEMENT MEMBRANE 4062
SUBMICROSOMAL LOCALIZATION OF PROLYL HYDROXYLASE 4770
COLLAGEN DEGRADATION BY EXTRACTS OF RAT LIVER LYSOSOMES 5288
COLLAGEN SYNTHESIS BY GINGIVA FIBROBLASTS 5464
PURIFICATION AND SUBSTRATE SPECIFICITY OF LYSYL OXIDASE 5779
IN VITRO COLLAGEN CROSS-LINKING 5786
INTACT MONOMERIC COLLAGEN AND STRUCUTRE OF NONHELICAL ENDS 6062
COLLAGEN-PLATELET INTERACTION 6347
TRIPLE HELIX MAY FORM BETWEEN POLYSOME-BOUND COLLAGEN CHAINS 7137
COLLAGENASE
SYNTHESIS AND RELEASE OF PROCOLLAGENASE BY FIBROBLASTS 3162
COLLIDINE
PURIFICATION OF KIDNEY 3-HYDROXYANTHRANILIC ACID OXYGENASE 368
COLOMINIC ACID
SEE ALSO NEURAMINIC ACID, N-ACETYL
COLON
RNA AND PROTEIN OF NUCLEAR RIBONUCLEOPROTEIN AND CHROMATIN 2592
COLOSTRUM
CORTICOSTEROID-BINDING PROTEINS IN COLOSTRUM AND MILK 5272
COMBINED IMMUNODEFICIENCY DISEASE
PURIFICATION OF HUMAN ERYTHROCYTE ADENOSINE DEAMINASE 4626
COMPARTMENTATION
AMINO ACID COMPARTMENTATION AND HEPATIC PROTEIN TURNOVER 1375
C6 CELL ECTO-5-PRIME-NUCLEOTIDASE 3900
COMPARTMENTATION OF ORNITHINE IN NEUROSPORA 3948
VALINE POOL AND PROTEIN SYNTHESIS AND DEGRADATION 4458
NUCLEAR LOCATION OF MAMMALIAN DNA POLYMERASE ACTIVITIES 7893
COMPLEMENTATION, IN VITRO
TRYPTOPHAN SYNTHETASE OF PROTEUS MIRABILIS 3875
COMPOUND X
COMPOUND X 6340
COMPUTER SIMULATION, KINETICS
KINETIC ANALYSIS OF DIFFERENTIATION IN D. DISCOIDEUM 6252
CONCANAVALIN A
SEE ALSO AGGLUTININS

SEE ALSO LECTINS
SERUM ALBUMIN IS ESSENTIAL FOR LYMPHOCYTE GROWTH 987
DIFFERENTIATION OF LYMPHOID CELLS 2469
OPPOSING EFFECTS OF LECTINS ON LYMPHOCYTE ACTIVATION 4017
HYBRIDIZATION OF CONCANAVALIN A SUBUNITS 4622
GOLGI GALACTOSYLTRANSFERASE OF CONCANAVALIN A 5868
ECTO-ENZYMES OF MAMMARY GLAND AND ITS TUMORS 6173
CONDURITOL-B-EPOXIDE
AA SEQUENCE OF ACTIVE SITE PEPTIDES FROM SUCRASE-ISOMALTASE 3256
CONFORMATION
SEE ALSO NUCLEAR MAGNETIC RESONANCE
SEE ALSO PROTEIN, CONFORMATION
CONFORMATION, SPECTROMETRY
SEE ALSO CIRCULAR DICHROISM
CONNECTIVE TISSUE
SEE ALSO COLLAGEN
CONTRACTILE PROTEINS
SEE ALSO ACTOMYOSIN
SEE ALSO MYOSIN
SEE ALSO TROPONIN
COOPERATIVITY
SEE ALSO ALLOSTERISM
SEE ALSO ENZYMES, REGULATION
SEE ALSO HEMOGLOBIN
SEE ALSO KINETICS
SEE ALSO PROTEIN, CONFORMATION
SEE ALSO PROTEIN, SUBUNITS
ENERGETICS OF PROTEASE-BLACK-EYED PEA INHIBITOR INTERACTIONS 763
THE NEGATIVE COOPERATIVITY OF INSULIN RECEPTORS 1877
CORRECTION TO DENEYS ET AL VOL. 251 (1976) P. 1877 6479
HORMONE RECEPTORS MICROFILAMENT MICROTUBULE MODIFIER EFFECTS 6844
EFFECTS OF GENE 32-PROTEIN BINDING ON DNA CONFORMATION 7215
COPPER
SUPEROXIDE MEDIATED METHEMOGLOBIN FORMATION 1015
INHIBITION OF SUPEROXIDE DISMUTASE IN VIVO 2182
ACTIVATION OF RAT LUNG GUANYLATE CYCLASE BY INCUBATION 7384
NEGLIGIBLE AMOUNT OF COPPER IN L-TRYPTOPHAN 2,3-DIOXYGENASE 7722
CORNEA
SYNTHESIS OF BASEMENT MEMBRANE COLLAGEN BY ENDOTHELIUM 730
GLYCOSAMINOGLYCAN BIOSYNTHESIS DURING CORNEAL DEVELOPMENT 6513
CORONARY FLOW
5-NUCLEOTIDASE IN PERFUSED HEART, SKELETAL MUSCLE AND LIVER 6372
CORPUS LUTEA
SEE ALSO LUTEINIZING HORMONE
CORPUS LUTEUM
GONADOTROPIN RECEPTORS IN CORPUS LUTEUM PLASMA MEMBRANES 7398
PHOSPHOLIPID ROLE IN CORPUS LUTEUM GONADOTROPIN RECEPTORS 7485
CORREXONUCLEASE
HUMAN CORREXONUCLEASE A REPAIR ENZYME FROM PLACENTA 4579
CORRINOID COMPOUNDS
SEE ALSO VITAMIN B12
CORTICOSTEROIDS
SEE ALSO STEROIDS
HORMONAL CONTROL OF GLYCOGEN METABOLISM IN FETAL HEPATOCYTES 1431
ADRENAL CLEAVAGE OF A 20-PHENYL ANALOG OF CHOLESTEROL 2087
EFFECT OF PHOSPHOLIPASES ON STEROID BINDING 2279
STEROID REGULATION OF ENZYME SYNTHESIS IN RAT LIVER IN VIVO 2571
REGULATION OF PHOSPHOENOLPYRUVATE CARBOXYKINASE DEGRADATION 3586
LIGAND BINDING TO TWO ADRENAL MITOCHONDRIAL P450 CYTOCHROMES 3706
BIOSYNTHESIS OF ORNITHINE DECARBOXYLASE 4436
MECHANISM OF RECEPTOR ACTIVATION 4758
AMINOLEVULINIC ACID SYNTHETASE IN THE HEART 4996
CORTICOSTEROID-BINDING PROTEINS IN COLOSTRUM AND MILK 5272
STIMULATION OF PROSTAGLANDIN SYNTHESIS 5814
GLUCOSE 6-PHOSPHATE TRANSPORT AND GLUCOSE-6-PHOSPHATASE 6784
PROPERTIES OF PHENYLALANINE HYDROXYLASE OF H4-II-E-C3 CELLS 6901
TEMPERATURE EFFECTS ON ADRENAL CORTICAL CYT P-450SCC 7128
GLUCOCORTICOID ACTION ON ATP PRODUCTION IN THYMIC LYMPHOCYTE 7295
CORTICOSTERONE
SEE ALSO COPTICOSTEROIDS
CORTISOL
SEE ALSO COPTICOSTEROIDS
CORTISONE
AMINO ACID RELEASE IN SKELETAL MUSCLE 844
CORYNEBACTERIUM MURISEPTICUM
ISOLATION OF CYCLIC DEOXYADENOSINE 3,5-MONOPHOSPHATE 438
COUPLING FACTORS
NUCLEOTIDE EXCHANGE INTO COUPLING FACTOR 1 6874
CHEMICAL CROSS-LINKING OF CHLOROPLAST COUPLING FACTOR 1 6953
ENERGY-DEPENDENT AMINO GROUP EXPOSURE ON CHLOROPLAST CF1 7168
ACID-INDUCED PHOSPHORYLATION OF BOUND ADP 7417
SYNTHESIS OF ATP BY ISOLATED CF1 VIA TRANSPHOSPHORYLATION 7796
COUPLING SITES
SEE ALSO PHOSPHORYLATION, OXIDATIVE
SEE ALSO SITE 1
CO2
SEE ALSO CARBON DIOXIDE
CR-(NH3)2-ATP
PH-DEPENDENT EFFECTS OF CR(NH3)2ATP ON HEXOKINASE KINETICS 7521
CRAB
LIMULUS HEMOCYANINS 7644
CREATINE
SEE ALSO PHOSPHOCREATINE
CREATINE ANALOG
ACCUMULATION OF PHOSPHOCYCLOCREATINE IN CHICK MUSCLE 2649
CREATINE KINASE
STRUCTURE OF CREATINE KINASE-SUBSTRATE COMPLEXES 2777
ENZYMOLOGICAL STUDIES ON HEREDITARY AVIAN DYSTROPHY 4468
CREATINE KINASE AS A CONTAMINANT OF MUSCLE TROPONIN 7001
CRESOL
OXIDATION OF P-CRESOL BY HORSERADISH PEROXIDASE COMPOUND I 6836
A PH-DEPENDENT STOICHIOMETRY WITH HORSERADISH PEROXIDASE 6843
CRITHIDIA FASICULATA
SPECIFICITY IN THE INITIATION OF GLOBIN MRNA TRANSLATION 5718
CRITICAL MICELLE CONCENTRATION
THE INFLUENCE OF HLB AND CMC ON DISRUPTION OF MEMBRANES 4442
DIACYLGLYCEROL ACYLTRANSFERASE ACTIVITY OF FAT CELLS 4537
CROSS-LINKING
SEE ALSO DIMETHYLSUBERIMIDATE
SEE ALSO PROTEIN, SUBUNITS
REACTION OF HAPTOGLOBIN WITH CROSSLINKED HEMOGLOBIN 465
CROSSLINKING OF NA-K ATPASE 1247
CHEMICAL CROSS-LINKING OF MYOSIN 2825
PURIFICATION AND SUBSTRATE SPECIFICITY OF LYSYL OXIDASE 5779
IN VITRO COLLAGEN CROSS-LINKING 5786
INTACT MONOMERIC COLLAGEN AND STRUCUTRE OF NONHELICAL ENDS 6062
ACTIVITY OF GLYCOGEN PHOSPHORYLASE IN THE CRYSTALLINE STATE 6852
CHEMICAL CROSS-LINKING OF CHLOROPLAST COUPLING FACTOR 1 6953
CROSS-LINKING OF IF2 TO RIBOSOMAL PROTEINS L7/L12 7779
CROSS-LINKING REAGENTS
PHOTOACTIVATED CROSS-LINKING OF MEMBRANE PROTEINS 7413

CRYSTALLIN
DELTA-CRYSTALLIN DNA REITERATION FREQUENCY 4294
SUBUNIT COMPOSITION OF EMBRYONIC CHICK LENS S-CRYSTALLIN 4416
CRYSTALLIZATION
PROTEIN CRYSTALS FROM POLYETHYLENE GLYCOL 6300
CRYSTALLOGRAPHY
SEE ALSO X-RAY
CRYSTALLOGRAPHY OF HUMAN ALBUMIN 3191
PRELIMINARY CRYSTAL DATA OF IRON-SUPEROXIDE DISMUTASE 4792
X-RAY STRUCTURE AND LIGAND BINDING OF PHOSPHORYLASE A 6142
ACTIVITY OF GLYCOGEN PHOSPHORYLASE IN THE CRYSTALLINE STATE 6852
CTP
ESSENTIAL ARGININE OF ASPARTATE TRANSCARBAMYLASE 2688
CTP SYNTHETASE OF CALF LIVER. SIZE. POLYMERIZATION 4372
CTP SYNTHETASE
CTP SYNTHETASE OF CALF LIVER. SIZE, POLYMERIZATION 4372
CUCUMBERS
INDOLE-3-ACETALDEHYDE REDUCTASES 907
CULTURES, MAMMALIAN
SEE ALSO SPECIFIC CELL TYPE
CYANATE
METHYLISOCYANATE AS AN ANTI-SICKLING AGENT 6226
REACTIVITY OF CYANATE WITH VALINE-1(ALPHA) OF HEMOGLOBIN 7638
CYANIDE
STABILITY AND ACTIVITY OF ISOPROPYLMALATE ISOMERASE 3545
NUCLEOPHILIC REACTIONS OF DEAZAFLAVINS 4872
CYANOBACTERIUM
METABOLISM OF RADIOACTIVE DINITROGEN BY A CYANOBACTERIUM 5027
CYANOGEN BROMIDE
SEE ALSO METHIONINE (IN PROTEINS)
PRIMARY STRUCTURE OF BACILLUS SUBTILIS FLAGELLIN. I. 695
PREPARATION AND ASSAY OF ANTIBODIES TO HEMOGLOBIN S FRAGMENT 1283
PRIMARY STRUCTURE OF STREPTOCOCCAL PROTEINASE. I 1941
THE PRIMARY STRUCUTRE OF STREPTOCOCCAL PROTEINASE. III 1955
CYANOKETONE
PLACENTAL 3BETA-OH-STEROID DEHYDROGENASE DELTA-5 ISOMERASE 1632
CYANOMETHYL ESTERS
CARBOXAMIDOMETHYL ESTER SUBSTRATES FOR CHYMOTRYPSIN 4722
CYCLIC AMP
SEE ALSO ADENYLATE CYCLASE
SEE ALSO PROTEIN, KINASES
EFFECTS OF PROTEIN KINASE ON SARCOPLASMIC PETICULUM 725
ADENINE NUCLEOTIDE LEVELS OF SPERM 787
AMINO ACID RELEASE IN SKELETAL MUSCLE 851
TESTICULAR PROTEIN KINASES 914
BETA-ADRENERGIC RECEPTORS OF CULTURED CELLS 1221
HORMONAL CONTROL OF GLYCOGEN METABOLISM IN FETAL HEPATOCYTES 1431
MODE OF ACTION OF CYCLIC GMP ON PROTEIN KINASE 1481
PHOSPHORYLATION OF RIBOSOMAL PROTEIN 1503
HORMONAL CONTROL OF PROTEIN PHOSPHORYLATION IN FAT CELLS 1511
CORRECTION TO SAIER ET AL VOL. 250 (1975) P. 7593 1531
ORNITHINE DECARBOXYLASE DURING DEVELOPMENT OF MAMMARY GLAND 1738
GLYCOGEN METABOLISM IN ASTROCYTOMA AND NEUROBLASTOMA CELLS 2615
ADENYLATE CYCLASE ACTIVITY IN SECRETORY VESICLES 2179
PROPERTIES OF CYTOSOL AND MEMBRANE-DERIVED PROTEIN KINASES 2192
DESENSITIZATION BY LH OF LH-RESPONSIVE ADENYLYL CYCLASE 2653
C-AMP ACTIVATION OF ACYL HYDROLASES IN ADIPOSE TISSUE 2882
CYCLIC GMP, CA2-PLUS AND GLYCOGENOLYSIS BY LIVER CELLS 2987
INDUCTION OF TRANSPORT IN CULTURED LIVER CELLS BY INSULIN 3014
PGE1 RECEPTORS AND ADENYLATE CYCLASE IN CULTURED CELLS 3037
PROTEIN KINASES DURING THE CELL CYCLE 3313
SUBUNIT INTERACTIONS OF PHOSPHO- + DEPHOSPHO- PROTEIN KINASE 3375
CORRECTION TO OKA + PERRY VOL. 251 (1976) P. 1738 3520
RESPONSE TO ACTH ANALOGS OF ADRENAL MEMBRANES AND CELLS 3576
CELL-CYCLE-SPECIFIC PHOSPHORYLATION SITES OF HISTONE F1 3685
REGULATION OF HEPATIC PYRUVATE KINASE 3756
OPPOSING EFFECTS OF LECTINS ON LYMPHOCYTE ACTIVATION 4017
CYCLIC 3-PRIME 5-PRIME-NUCLEOTIDE PHOSPHODIESTERASE 4193
STIMULATORY MODULATOR OF PROTEIN KINASE 4283
EFFECTS OF TRYPSIN ON GLYCOGEN SYNTHETASE 4359
BIOSYNTHESIS OF ORNITHINE DECARBOXYLASE 4436
ROLE OF GANGLIOSIDE STRUCTURE IN CHOLERAGEN RESPONSE 4490
COMPARISON OF CALCIUM-BINDING PROTEINS 4495
SIMILARITIES BETWEEN CALCIUM-DEPENDENT REGULATORY PROTEINS 4501
AUTOACTIVATION OF PHOSPHORYLASE KINASE 4521
INTERACTION OF CYCLIC AMP WITH PROTEIN KINASE 4551
CYCLIC AMP IN PANCREATIC ACINAR CELLS 4635
NUCLEOTIDES REGULATE BETA-ADRENERGIC RECEPTORS 4686
ENZYME ACTIVITIES IN SUBCELLULAR FRACTIONS OF BOVINE RETINA 4700
LYMPHOCYTE CYCLIC AMP PHOSPHODIESTERASE 4922
HORMONE-SENSITIVE RESEALED GHOSTS 4930
RENAL METABOLISM OF EXOGENOUS CYCLIC AMP AND CYCLIC GMP 4958
NEGATIVE COOPERATIVITY AMONG BETA-ADRENERGIC RECEPTORS 5007
ALPHA-ADRENERGIC ACTIVATION OF HEPATIC GLUCOSE OUTPUT I. 5200
ALPHA-ADRENERGIC ACTION IN LIVER. II 5209
PHOSPHORYLATION OF PHENYLALANINE HYDROXYLASE 5310
PHOSPHORYLATION OF RNA POLYMERASE I 5408
CORRECTION TO ROCKAERT ET AL VOL. 251 (1976) P. 2653 5429
REGULATION OF CARBOHYDRATE METABOLISM IN ESCHERICHIA COLI 5522
ON THE ROLE OF PLASMINOGEN ACTIVATOR IN OVULATION 5694
CYCLIC 3-PRIME 5-PRIME-NUCLEOTIDE PHOSPHODIESTERASE 5726
TWO SOLUBLE FORMS OF ADENYLATE CYCLASE 5831
AMINO ACID TRANSPORT IN THYMOCYTES 6030
GLUCOSE METABOLISM AND N-CELL FUNCTION IN VITRO 6053
DNA SYNTHESIS AND CELL DIFFERENTIATION IN CARDIAC MUSCLE 6082
GLUCOSE AND LACTATE FORMATION FROM PYRUVATE 6189
SITES IN HISTONES PHOSPHORYLATED BY PROTEIN KINASES 6287
TIME DEPENDENT CHANGES IN ADENYLATE CYCLASE 6568
THYROID CELL REFRACTORINESS TO TSH STIMULATION 6653
2-FLUOROADENOSINE 3,5-MONOPHOSPHATE. CELLULAR FORMATION 6757
EFFECTS OF SPIN-LABELED STEARATES ON ADENYLATE CYCLASE 7431
CYCLIC NUCLEOTIDE PHOSPHODIESTERASE SECRETION FROM PLATELETS 7508
SELF-PHOSPHORYLATION OF PROTEIN KINASE 7526
REFRACTORINESS BY ISOPROTERENOL IN MUTANT CELLS 7572
PROTEIN KINASE IN THE OUTER MEMBRANE OF 3T3 AND SV3T3 CELLS 7899
CYCLIC DEOXY AMP
ISOLATION OF CYCLIC DEOXYADENOSINE 3,5-MONOPHOSPHATE 438
CYCLIC GMP
SEE ALSO GUANYLATE CYCLASE
MODE OF ACTION OF CYCLIC GMP ON PROTEIN KINASE 1481
CYCLIC GMP-DEPENDENT PROTEIN KINASE FROM LUNG 1759
CYCLIC GMP METABOLISM IN NORMAL AND TRANSFORMED FIBROBLASTS 2344
CYCLIC GMP, CA2-PLUS AND GLYCOGENOLYSIS BY LIVER CELLS 2987
STIMULATORY MODULATOR OF PROTEIN KINASE 4283
CATALYTIC FRAGMENT OF CYCLIC GMP-DEPENDENT PROTEIN KINASE 4476
CYCLIC GMP IN PANCREATIC ACINAR CELLS 4640
CYCLIC GMP IN PANCREATIC ACINAR CELLS 4640
EFFECTS OF SODIUM AZIDE ON RENAL CORTICAL CGMP 4651
ENZYME ACTIVITIES IN SUBCELLULAR FRACTIONS OF BOVINE RETINA 4700
LYMPHOCYTE CYCLIC AMP PHOSPHODIESTERASE 4922
RENAL METABOLISM OF EXOGENOUS CYCLIC AMP AND CYCLIC GMP 4958
ON THE ROLE OF PLASMINOGEN ACTIVATOR IN OVULATION 5694
CYCLIC 3-PRIME 5-PRIME-NUCLEOTIDE PHOSPHODIESTERASE 5726
STIMULATION OF GUANYLATE CYCLASE BY FREE FATTY ACIDS 5802
SITES IN HISTONES PHOSPHORYLATED BY PROTEIN KINASES 6287
ACTIVATION OF RAT LUNG GUANYLATE CYCLASE BY INCUBATION 7304
CYCLIC NUCLEOTIDE PHOSPHODIESTERASE SECRETION FROM PLATELETS 7508
MAGNESIUM DEPENDENT GUANYLATE CYCLASE 7769
CYCLOCREATINE
ACCUMULATION OF PHOSPHOCYCLOCREATINE IN CHICK MUSCLE 2049
CYCLOHEXANEDIONE
FUNCTIONAL ARGININE RESIDUE OF GLUTAMATE DEHYDROGENASE 5835
CYCLOHEXIMIDE
SEE ALSO PROTEIN, SYNTHESIS
YEAST CYTOCHROME C1 1997
GENETICS OF METYRAPONE AND ETHYL ISOCYANIDE BINDING TO P 450 5397
TEMPERATURE EFFECTS ON ADRENAL CORTICAL CYT P-450SCC 7120
CYCLOHEXIMIDE INHIBITION OF PROTEIN SYNTHESIS INITIATION 7278
CYCLOOXYGENASE
PURIFICATION OF PROSTAGLANDIN-FORMING CYCLOOXYGENASE 5575
MECHANISM FOR SELF-DEACTIVATION OF PROSTAGLANDIN SYNTHETASE 7329
CYCLOSERINE
REACTIVITY OF PHOSPHOPYRIDOXAL IN CYSTATHIONASE 5267
CYSTATHIONASE
REACTIVITY OF PHOSPHOPYRIDOXAL IN CYSTATHIONASE 5267
ENZYMATIC REACTIONS OF METHIONINE SULFOXIMINE 6674
CYSTEAMINE
SUBUNIT STRUCTURE AND CHEMICAL COMPOSITION OF CITRATE LYASE 2911
CYSTINE METABOLISM IN HUMAN FIBROBLASTS 4287
CYSTEINE
REACTION MECHANISM FOR O-ACETYLSERINE SULFHYDRYLASE 2023
GAMMA-GLUTAMYLCYSTEINE SYNTHETASE 3563
CYSTEINE (IN PROTEINS)
SEE ALSO SULFHYDRYLS (IN PROTEINS)
BROMOPYRUVATE INACTIVATION OF GLUTAMATE DECARBOXYLASE 229
SELECTIVE MODIFICATION OF A CYSTEINE IN ELONGATION FACTOR G 930
ANTHRANILATE SYNTHETASE 941
INACTIVATION OF PHOSPHORYLASE B BY POTASSIUM FERRATE 1553
SUBUNIT STRUCTURE OF AMP-DEAMINASE 1847
COMPLETE AMINO ACID ANALYSIS OF PROTEINS 1936
THE PRIMARY STRUCUTRE OF STREPTOCOCCAL PROTEINASE. III 1955
NITRATE REDUCTASE FROM ESCHERICHIA COLI 2207
FOLDING PATHWAY OF REDUCED LYSOZYME 3147
REQUIRED THIOL GROUP AND SEQUENCES OF THIOL PEPTIDES 3254
THIOL PEPTIDES OF HUMAN TRYPTOPHANYL-TRNA SYNTHETASE 3261
LIPOAMIDE DEHYDROGENASE ACTIVE SITE CYSTEINE REACTIVITIES 3553
CYSTEINE-CONTAINING HZR-LIKE HISTONE IN MAMMALIAN TESTIS 4155
CALCIUM BINDING TO TROPONIN C 7551
ACTIVATOR-INDUCED OLIGOMERIZATION OF ADP-GLUCOSE SYNTHASE 7886
CYSTEINE SYNTHASE
STEREOCHEMISTRY OF CYSTEINE FORMATION 5478
CYSTEINE SYNTHASE
REACTION MECHANISM FOR O-ACETYLSERINE SULFHYDRYLASE 2023
CYSTINE
CYSTINE METABOLISM IN HUMAN FIBROBLASTS 4287
CYSTINE (IN PROTEINS)
CIRCULAR DICHROISM OF BOWMAN-BIRK TRYPSIN INHIBITOR 3411
LIPOAMIDE DEHYDROGENASE ACTIVE SITE CYSTEINE REACTIVITIES 3553
CYSTINOSIS
CYSTINE METABOLISM IN HUMAN FIBROBLASTS 4287
CYTIDINE
SPECIFICITY OF DEOXYCYTIDINE KINASE 4055
CYTIDINE DIPHOSPHATE
SEE ALSO CDP
CYTOCHALASIN B
SULFHYDRYL AGENTS AND FAT CELL HEXOSE TRANSPORT 1164
CYTOCHALASIN B BINDING TO FAT CELL PLASMA MEMBRANES 2905
HORMONE RECEPTORS MICROFILAMENT MICROTUBULE MODIFIER EFFECTS 6844
CYTOCHROME A-A3
CARBON MONOXIDE BINDING BY CYTOCHROME C OXIDASE 2861
CYTOCHROME B5
SELF-ASSOCIATION OF CYTOCHROME B5 IN AQUEOUS SOLUTION 2113
MECHANISM OF RAT LIVER MICROSOMAL STEARYL-CO A DESATURASE 5095
EPR OF TUNGSTEN-CONTAINING SULFITE OXIDASE 5505
AMINO ACID SEQUENCE OF CYTOCHROME B5 6767
CYTOCHROME C
CYTOCHROME C1-CYTOCHROME C COMPLEX 29
EUKARYOTIC CYTOCHROMES C REACTIONS WITH MITOCHONDRIAL ENZYME 1104
PHOSPHOLIPIDS AS IONOPHORES 1326
YEAST CYTOCHROME C1 1991
YEAST CYTOCHROME C1 1997
PARACOCCUS DENITRIFICANS CYTOCHROME C550 SEQUENCE 2197
1-ELECTRON REDOX REACTIONS BY FAST PULSE CYT-C/FERRICYANIDE 4336
EPR OF TUNGSTEN-CONTAINING SULFITE OXIDASE 5505
THYROXINE-INDUCED CHANGES IN AMPHIBIAN LIVER ORGANELLES 6161
TRANSLATION OF YEAST CYTOCHROME C MRNA 6320
OXYGENATED CYTOCHROME OXIDASE 7487
CYTOCHROME C OXIDASE
RESOLUTION OF CYTOCHROME OXIDASES.ENZYMES WITH FIVE SUBUNITS 257
CYTOCHROME OXIDASE WITH FOUR POLYPEPTIDE SUBUNITS 270
EUKARYOTIC CYTOCHROMES C REACTIONS WITH MITOCHONDRIAL ENZYME 1104
CARBON MONOXIDE BINDING BY CYTOCHROME C OXIDASE 2861
CYTOCHROME C REDUCTASE
SYNTHESIS OF C. ACIDI-URICI FERREDOXIN DERIVATIVES 1675
BIOCHEMICAL AND ULTRASTRUCTURE CHANGES IN B12 DEFICIENCY 2147
HYDROXYLASE ACTIVITY OF HEMOGLOBIN 3436
THYROXINE-INDUCED CHANGES IN AMPHIBIAN LIVER ORGANELLES 6161
INCORPORATION OF PROTEINS INTO LIPOSOMES 6831
CYTOCHROME C 550
PARACOCCUS DENITRIFICANS CYTOCHROME C550 SEQUENCE 2197
PARACOCCUS CYTOCHROME C 550 STRUCTURE 4033
CYTOCHROME OXIDASE
MITOCHONDRIAL INNER MEMBRANE SYNTHESIS IN CULTURED OOCYTES 6697
INCORPORATION OF PROTEINS INTO LIPOSOMES 6831
BIOLOGICAL ELECTRIC GENERATORS. CYTOCHROME OXIDASE 7072
BIOLOGICAL ELECTRIC GENERATORS. H-PLUS-ATPASE 7077
OXYGENATED CYTOCHROME OXIDASE 7487
ELECTRONIC STATE OF HEME IN CYTOCHROME OXIDASE 7907
CYTOCHROME P 448
MULTIPLE FORMS OF RAT LIVER CYTOCHROME P 450 1385
DE NOVO PROTEIN SYNTHESIS OF CYTOCHROME P 450 1817
CYTOCHROME P 450
SEE ALSO HYDROXYLASES
SEE ALSO OXYGENASES
OXYGENATED CYTOCHROME P 450 1116
MULTIPLE FORMS OF RAT LIVER CYTOCHROME P 450 1385
DE NOVO PROTEIN SYNTHESIS OF CYTOCHROME P 450 1817
15-BETA-HYDROXYLASE SYSTEM IN BACILLUS MEGATERIUM 2831
HETEROGENEITY OF CYTOCHROME P-450 IN RAT TESTIS MICROSOMES 2839
PURIFICATION OF PULMONARY CYTOCHROME P-450 3213
HYDROXYLASE ACTIVITY OF HEMOGLOBIN 3436
BIOSYNTHESIS OF CHOLIC ACID 3495

LIGAND BINDING TO TWO ADRENAL MITOCHONDRIAL P450 CYTOCHROMES 3706
ISOLATION OF CHICK RENAL MITOCHONDRIAL FERREDOXIN 3933
CYTOCHROME P 450 REDUCTION 4610
EFFECT OF COBALT ON SYNTHESIS OF HEME AND CYTOCHROME P 450 4621
MULTIPLE FORMS OF MOUSE CYTOCHROME P 450 4659
ENZYME MEDIATED MUTAGENESIS OF BENZPYRENE 4882
CCL-4 MEDIATED LIPID PEROXIDATION IN ISOLATED LIVER CELLS 4973
AFFINITY-CHROMATOGRAPHED NADPH-CYT C (P 450) REDUCTASE 5337
GENETICS OF METYRAPONE AND ETHYL ISOCYANIDE BINDING TO P 450 5397
ADRENAL MITOCHONDRIAL P 450 6068
THYROXINE-INDUCED CHANGES IN AMPHIBIAN LIVER ORGANELLES 6161
TEMPERATURE EFFECTS ON ADRENAL CORTICAL CYT P-450SCC 7120
ADRENODOXIN REDUCTASE ADRENODOXIN 1 1 COMPLEX+ PROPERTIES 7545
TWO HOMOGENEOUS FORMS OF LIVER MICROSOMAL CYTOCHROME P 450 7929
CYTOCHROME P 450 REDUCTASE
CYTOCHROME P 450 REDUCTION 4610
AFFINITY-CHROMATOGRAPHED NADPH-CYT C (P 450) REDUCTASE 5337
CYTOLYSIS
2-FLUOROADENOSINE 3,5-MONOPHOSPHATE. CELLULAR FORMATION 6757
CYTOPLASMIC INHERITANCE
SEE ALSO NEUROSPORA CRASSA
CYTOSINE ARABINOSIDE
SPECIFICITY OF DEOXYCYTIDINE KINASE 4855
CYTOSINE, HYDROXY-METHYL
SEE ALSO HYDROXYMETHYLCYTOSINE

D

DAHP SYNTHASE
3-DEOXY-D-ARABINO-HEPTULOSONATE 7-PHOSPHATE SYNTHASE 5440
DANSYLCADAVERINE
ACTION OF FIBRIN-STABILIZING FACTOR IN CLOTTING PLASMA 1639
DEACETYLATION
DEACETYLATION ACTIVITY OF SALMONELLA PHAGE C341 5361
DEAZA FAD
DEAZAFAD-GLYOXALATE CARBOLIGASE 329
DEAZAFLAVIN
NUCLEOPHILIC REACTIONS OF DEAZAFLAVINS 4872
DEHALOGENATION
ENZYMATIC RING HYDROLYSIS OF 5-IODO-5,6-DIHYDROURACIL 6909
DEHYDROGENASES
SEE ALSO SPECIFIC ENZYMES
HYDROGEN EXCHANGE IN REDUCED PYRIDINE NUCLEOTIDES 1785
DEHYDROPROLINE
L-3,4-DEHYDROPROLINE AND COLLAGEN METABOLISM 503
DENATURATION
SEE ALSO DNA, DENATURATION
SEE ALSO PROTEIN, DENATURATION
DEOXY AMP
NUCLEOSIDE PHOSPHOTRANSFERASE FROM ERWINIA HERBICOLA 2330
DEOXY TMP
NUCLEOSIDE PHOSPHOTRANSFERASE FROM ERWINIA HERBICOLA 2330
DEOXY-ARABINO-HEPTULOSONATE 7-PHOSPHATE SYNTHASE
3-DEOXY-D-ARABINO-HEPTULOSONATE 7-PHOSPHATE SYNTHASE 5440
DEOXYADENOSINE MONOPHOSPHATE
ISOLATION OF CYCLIC DEOXYADENOSINE 3,5-MONOPHOSPHATE 438
DEOXYCHOLATE
INHIBITION OF GLUCOSE-6-PHOSPHATASE BY PYRIDOXAL PHOSPHATE 1035
RECONSTITUTION OF A CALCIUM PUMP IN SARCOPLASMIC RETICULUM 3169
DEOXYCYTIDINE KINASE
SPECIFICITY OF DEOXYCYTIDINE KINASE 4855
DEOXYGLUCOSE
REGULATION OF ADENYLATE CYCLASE BY PTS ENZYMES II 2462
DEOXYGUANOSINE
SPECIFICITY OF DEOXYCYTIDINE KINASE 4855
DEOXYHEMOGLOBIN
SEE ALSO HEMOGLOBIN
DEOXYNUCLEOTIDES
SEE ALSO DNA
DEOXYPYRIDOXINE
SEE ALSO PYRIDOXINE, PYRIDOXAL
IN VIVO METABOLISM OF 4-DEOXYPYRIDOXINE IN RAT + MAN 1646
DEOXYRIBONUCLEIC ACID
SEE ALSO DNA
DEOXYTHYMIDINE KINASE
HUMAN CYTOPLASMIC AND MITOCHONDRIAL DEOXYTHYMIDINE KINASE 2600
PURIFICATION OF HERPES SIMPLEX VIRUS DEOXYTHYMIDINE KINASE 2605
DESATURASE
ACYL-CO A DESATURASE OF ADIPOSE TISSUE AND LIVER 7468
DESCEMETS MEMBRANE
SYNTHESIS OF BASEMENT MEMBRANE COLLAGEN BY ENDOTHELIUM 730
DESENSITIZATION
GONADOTROPIN INDUCED DESENSITIZATION OF ADENYLATE CYCLASE 7729
DESMOSINES
ELASTIN BIOSYNTHESIS FROM SOLUBLE ELASTIN IN VITRO 1125
DESMOSTEROL
SEE ALSO STEROLS
DETERGENTS
SEE ALSO TRITON
PHOSPHOLIPID ACTIVATION OF A PURIFIED MEMBRANE ENZYME 1264
DETERGENT ACTIVATION OF A PURIFIED MEMBRANE ENZYME 1277
CYCLIC GMP METABOLISM IN NORMAL AND TRANSFORMED FIBROBLASTS 2344
PROLINE REDUCTASE PURIFICATION AND PROPERTIES 2435
THYROID PEROXIDASE AND NONIONIC DETERGENTS 2525
THE INFLUENCE OF HLB AND CMC ON DISRUPTION OF MEMBRANES 4442
DIACYLGLYCEROL ACYLTRANSFERASE ACTIVITY OF FAT CELLS 4537
SUBMICROSOMAL LOCALIZATION OF PROLYL HYDROXYLASE 4770
PURIFICATION OF HUMAN LEUKOCYTE INTERFERON COMPONENTS 4810
IMMUNOADSORBENT PURIFICATION OF HLA ANTIGEN 5427
SOLUBILIZED NGF RECEPTORS 5680
STIMULATION OF GUANYLATE CYCLASE BY FREE FATTY ACIDS 5802
PHYSICAL PROPERTIES OF TWO FORMS OF GLUTAMYLTRANSPEPTIDASE 7863
DEUTERIUM
DMR OF ANIMAL CELLS 6147
ACYL-CO A DESATURASE OF ADIPOSE TISSUE AND LIVER 7468
DEUTERIUM EXCHANGE
SEE ALSO HYDROGEN EXCHANGE
HYDROGEN EXCHANGE IN REDUCED PYRIDINE NUCLEOTIDES 1785
DEUTERIUM ISOTOPE EFFECTS
PMR STUDIES OF THE GLUTAMATE-ALANINE TRANSAMINASE REACTION 1888
ACYL-CO A DESATURASE OF ADIPOSE TISSUE AND LIVER 7468
DEUTERIUM MAGNETIC RESONANCE
DMR OF ANIMAL CELLS 6147
DEUTERIUM OXIDE
HORMONE RECEPTORS MICROFILAMENT MICROTUBULE MODIFIER EFFECTS 6844
DEVELOPMENT
SEE ALSO AGING
SEE ALSO DIFFERENTIATION
SEE ALSO GERMINATION
SEE ALSO OVIDUCT
TESTICULAR PROTEIN KINASES 914
GLYCOGEN PHOSPHORYLASE IN DICTYOSTELIUM DISCOIDEUM.I. 1253
GLYCOGEN PHOSPHORYLASE ACCUMULATION IN D. DISCOIDEUM. II. 1258
HORMONAL CONTROL OF GLYCOGEN METABOLISM IN FETAL HEPATOCYTES 1431
DEVELOPMENT OF NGF RECEPTORS IN EMBRYONIC BRAIN 1524
ORNITHINE DECARBOXYLASE DURING DEVELOPMENT OF MAMMARY GLAND 1738
MUTATIONS AFFECTING BETA-GLUCOSIDASE IN DICTYOSTELIUM 2680
HETEROCYST AND SPORE POLYSACCHARIDES 2967
THE PROSTAGLANDIN SYSTEM IN DEVELOPING LAMB BRAIN 3361
CORRECTION TO OKA + PERRY VOL. 251 (1976) P. 1738 3520
ESTROGEN EFFECT ON COMPLEXITY OF POLY(A)-RNA IN OVIDUCT 3738
DNA SYNTHESIS AND TURNOVER DURING TADPOLE METAMORPHOSIS 4111
M. SEXTA JUVENILE HORMONE CARRIER PROTEIN 4979
THYROID HORMONES AND BRAIN FATTY ACID ALPHA HYDROXYLATION 5237
GLYCOSAMINOGLYCAN BIOSYNTHESIS DURING CORNEAL DEVELOPMENT 6513
MEMBRANES OF DEVELOPING CHICK ERYTHROCYTES 6667
SPECIFIC SPORE PROTEASE FROM B. MEGATERIUM 7853
DEXAMETHASONE
SEE ALSO CORTICOSTEROIDS
STIMULATION OF PROSTAGLANDIN SYNTHESIS 5814
DEXTRAN
DEXTRAN-TRYPSIN CONJUGATE 1481
DEXTRAN SULFATE
NUCLEIC ACID HELIX-UNWINDING PROTEINS FROM CALF THYMUS 2124
DEXTRAN-MALEIMIDE
EXOFACIAL COMPONENT OF ERYTHROCYTE HEXOSE TRANSPORT 7184
DEXTRAN, BLUE
PROPERTIES OF SUCCINYL CO A 3-KETOACID CO A TRANSFERASE 1788
DIABETES
SEE ALSO INSULIN
SEE ALSO PANCREAS
AMINO ACID RELEASE IN SKELETAL MUSCLE 844
MULTIPLE KINETIC FORMS OF ADIPOSE TISSUE GLYCOGEN SYNTHASE 2316
INSULIN EFFECTS ON HEART GLYCOGEN SYNTHASE PHOSPHATASE 6724
GLUCOSE 6-PHOSPHATE TRANSPORT AND GLUCOSE-6-PHOSPHATASE 6784
DIACETYLCHITOBIOSE
HEN OVIDUCT ENDO-BETA-N-ACETYLGLUCOSAMINIDASE 6537
DIACETYLMURAMIDASE
SEE ALSO LYSOZYME
DIAMINOBUTANE
SEE ALSO ORNITHINE DECARBOXYLASE
SEE ALSO POLYAMINES
MODE OF ACTION OF CYCLIC GMP ON PROTEIN KINASE 1481
POLYAMINE TRANSPORT IN MAMMARY GLAND 2795
EPIDERMAL TRANSGLUTAMINASE 7281
DIAMINOBUTYRATE
REACTIVITY OF PHOSPHOPYRIDOXAL IN CYSTATHIONASE 5267
DIAMINOPIMELATE
CONDITIONAL SPORE CORTEX-LESS MUTANTS OF B. SPHAERICUS 1493
MEMBRANE BOUND PEPTIDOGLYCAN SYNTHETIC PROTEIN B MEGATERIUM 1689
CORRECTION TO IMAE AND STROMINGER VOL. 251 (1976) P. 1493 3839
DIAZIDO COMPOUNDS
PHOTOACTIVATED CROSS-LINKING OF MEMBRANE PROTEINS 7413
DIAZOBENZENE SULFONATE
LOCATION OF MITOCHONDRIAL PROTEINS BY LABELING REAGENTS 1354
DIAZOTIZED DIIODOSULFANILATE
ARRANGEMENT OF PROTEINS IN SARCOPLASMIC RETICULUM 2037
DIBUTYRYL CYCLIC AMP
SEE ALSO CYCLIC AMP
REGULATION OF PHOSPHOENOLPYRUVATE CARBOXYKINASE DEGRADATION 3586
AMINO ACID TRANSPORT IN THYMOCYTES 6830
GLUCOSE AND LACTATE FORMATION FROM PYRUVATE 6189
DICHLOROACETATE
CO A/AC-CO A,NAD/NADH RATIOS + HEART PYRUVATE DEHYDROGENASE 5483
DICTYOSTELIUM DISCOIDEUM
SEE ALSO SLIME MOLD
GLYCOGEN PHOSPHORYLASE IN DICTYOSTELIUM DISCOIDEUM.I. 1253
GLYCOGEN PHOSPHORYLASE ACCUMULATION IN D. DISCOIDEUM. II. 1258
MUTATIONS AFFECTING BETA-GLUCOSIDASE IN DICTYOSTELIUM 2680
KINETIC ANALYSIS OF DIFFERENTIATION IN D. DISCOIDEUM 6252
TIME DEPENDENT CHANGES IN ADENYLATE CYCLASE 6568
DICYCLOHEXYLCARBODIIMIDE (DCCD)
PROTON-COUPLED CALCIUM TRANSPORT 962
PROTON TRANSLOCATING ATPASE 2453
PURIFICATION OF THE CARBODIIMIDE-REACTIVE PROTEIN 6630
DIET
REGULATION OF 6-PHOSPHOGLUCONATE DEHYDROGENASE SYNTHESIS 3539
DIETHYLDITHIOCARBAMATE
INHIBITION OF SUPEROXIDE DISMUTASE IN VIVO 2182
SUPEROXIDE ANION AND DRUG INDUCED HEMOLYSIS 6468
DIETHYLSTILBESTEROL
SEE ALSO ESTROGENS
DIFFERENTIATION
SEE ALSO DEVELOPMENT
PROTEINS OF FRIEND LEUKEMIA CELLS 555
BIOSYNTHESIS OF HUMAN PLACENTAL LACTOGEN MRNA 820
GLYCOGEN PHOSPHORYLASE IN DICTYOSTELIUM DISCOIDEUM.I. 1253
GLYCOGEN PHOSPHORYLASE ACCUMULATION IN D. DISCOIDEUM. II. 1258
DIFFERENTIATION OF LYMPHOID CELLS 2469
DELTA-CRYSTALLIN DNA REITERATION FREQUENCY 4294
DNA SYNTHESIS AND CELL DIFFERENTIATION IN CARDIAC MUSCLE 6602
KINETIC ANALYSIS OF DIFFERENTIATION IN D. DISCOIDEUM 6252
LIPOGENIC DIFFERENTIATION IN CELL CULTURE 6662
SPECIFIC SPORE PROTEASE FROM B. MEGATERIUM 7853
DIFFUSION, ELECTROPHORESIS
CRYSTALLIZATION OF ESTRADIOL 17-BETA-DEHYDROGENASE 3788
DIGITARIA SANGUINALIS
3-MERCAPTOPICOLINIC ACID. INHIBITION OF C-4 PHOTOSYNTHESIS 5824
DIGITONIN
PLACENTAL 3BETA-OH-STEROID DEHYDROGENASE DELTA-5 ISOMERASE 1632
DIHYDROALPRENOLOL
SOLUBLE BETA-ADRENERGIC RECEPTORS 2374
ADIPOCYTE BETA-ADRENERGIC RECEPTORS 3696
NUCLEOTIDES REGULATE BETA-ADRENERGIC RECEPTORS 4686
NEGATIVE COOPERATIVITY AMONG BETA-ADRENERGIC RECEPTORS 5487
DIHYDROERGOCRYPTINE
IDENTIFICATION OF ALPHA-ADRENERGIC RECEPTORS 6915
DIHYDROFOLATE REDUCTASE
SEE ALSO FOLATE REDUCTASE
OVERPRODUCTION OF DIHYDROFOLATE REDUCTASE 3875
INTERCONVERTIBLE FORMS OF E. COLI DIHYDROFOLATE REDUCTASE 7411
DIHYDROPYRIMIDINE AMIDOHYDROLASE
ENZYMATIC RING HYDROLYSIS OF 5-IODO-5,6-DIHYDROURACIL 6909
DIHYDROTESTOSTERONE
SEE ALSO ANDROGENS
SEE ALSO STEROIDS
SEE ALSO TESTOSTERONE
DIHYDROXYACETONE
OXIDATION OF TRANSALDOLASE INTERMEDIATE 4228
HORMONAL CONTROL OF DIHYDROXYACETONE AND GLYCEROL METABOLISM 7841
DIHYDROXYACETONE PHOSPHATE
CRYSTALLINE METHYLGLYOXAL SYNTHETASE FROM PROTEUS VULGARIS 364
FAT CELL GLYCEROL-P AND DIHYDROXYACETONE-P ACYLTRANSFERASES 5738

DIHYDROXYBUTYL 1-PHOSPHONATE
METABOLIC FATE OF 3,4-DIHYDROXYBUTYL-1-PHOSPHONATE IN E.COLI 6717
DIISOPROPYLFLUOROPHOSPHATE
SEE ALSO PROTEASES
SEE ALSO PROTEOLYSIS
SEE ALSO SERINE (IN PROTEINS)
DIMERIZATION
CHYMOTRYPSIN DIMERIZATION 498
DIMETHYL-THIAZOLINE-4-CARBOXYLATE
DEGRADATION OF PENILLILLIN G BY D-ALANINE CARBOXYPEPTIDASE 7947
DIMETHYLGLUTARATE
PURIFICATION OF KIDNEY 3-HYDROXYANTHRANILIC ACID OXYGENASE 368
DIMETHYLSUBERIMIDATE
SEE ALSO PROTEIN, CROSSLINKING
SEE ALSO PROTEIN, SUBUNITS
CHEMICAL CROSS-LINKING OF CHLOROPLAST COUPLING FACTOR 1 6953
DIMETHYLSULFOXIDE
PROTEINS OF FRIEND LEUKEMIA CELLS 555
EPIDERMAL TRANSGLUTAMINASE 7281
DIOXO-5-INDOLINESULFONIC ACID
LYSOZYME DERIVATIVE MODIFIED AT TRYPTOPHAN 123 1653
DIOXYGENASES
SEE ALSO OXYGENASES
NEGLIGIBLE AMOUNT OF COPPER IN L-TRYPTOPHAN 2,3-DIOXYGENASE 7722
DIPHOSPHOGLYCERATE
SEE ALSO BISPHOSPHOGLYCERATE
SEE ALSO HEMOGLOBIN
DIPHOSPHOPYRIDINE NUCLEOTIDE
SEE ALSO NAD
SEE ALSO NADH
DIPHTHERIA TOXIN
DIPHTHERIA TOXIN INTERACTION WITH CELL MEMBRANES 5770
INTERACTIONS OF ADPRIB-EF-2 WITH RIBOSOMES 6544
DIPICOLINATE
CONDITIONAL SPORE CORTEX-LESS MUTANTS OF B. SPHAERICUS 1493
CORRECTION TO IMAE AND STROMINGER VOL. 251 (1976) P. 1493 3839
DIPLOCOCCUS PNEUMONIAE
ENDO-BETA-GALACTOSIDASE ACTING ON BLOOD GROUP SUBSTANCES 3603
PURIFICATION OF THE PNEUMOCOCCAL AUTOLYSIN (AMIDASE) 4199
DISULFIDE (IN PROTEINS)
A STUDY OF RENATURATION OF REDUCED HEN EGG WHITE LYSOZYME 6934
DISULFIDES (IN PROTEINS)
SEE ALSO CYSTINE (IN PROTEINS)
SEE ALSO SULFHYDRYLS (IN PROTEINS)
FOLDING PATHWAY OF REDUCED LYSOZYME 3147
DISULFIDE LINKING OF PRO-ALPHA CHAINS 3530
LIPOAMIDE DEHYDROGENASE ACTIVE SITE CYSTEINE REACTIVITIES 3553
OXIDATION-REDUCTION POTENTIALS OF LIPOAMIDE DEHYDROGENASE 3956
THIOL GROUP AND FE+++ REQUIREMENT FOR UTERINE PHOSPHATASE 4680
REDUCTION OF DISULFIDES IN GLYCOPROTEIN HORMONES 6386
REDUCTION AND REOXIDATION OF DISULFIDES OF LH ALPHA 6392
SPECIFICITY OF PROTEIN TURNOVER IN TOMATO LEAVES 7004
MECHANISM FOR SELF-DEACTIVATION OF PROSTAGLANDIN SYNTHETASE 7329
DISULFIRAM
SEE ALSO ETHANOL
DITHIOBISPHENYL AZIDE
PHOTOACTIVATED CROSS-LINKING OF MEMBRANE PROTEINS 7413
DITHIOERYTHRITOL
SEE ALSO SULFHYDRYLS
DITHIONITE
KINETICS OF THE HEMERYTHRIN-OXYGEN INTERACTION 2339
DITHIOTHREITOL
SEE ALSO SULFHYDRYLS
DIVALENT CATIONS
SEE ALSO CALCIUM
SEE ALSO MAGNESIUM
SEE ALSO MANGANESE
DNA
SEE ALSO CHROMATIN
SEE ALSO DNA, POLYMERASE
SEE ALSO DNASE
SEE ALSO ENDONUCLEASES
SEE ALSO EXONUCLEASES
SEE ALSO RNA, POLYMERASE
RECEPTOR-STEROID COMPLEX INTERACTIONS WITH ACCEPTOR SITES 334
IN VITRO SYNTHESIS OF OVALBUMIN MRNA 524
NONSPECIFIC CLEAVAGE OF PHI-X 174 RF I BY N. CRASSA NUCLEASE 530
THE PHYSICAL MAPPING OF BACTERIOPHAGE T5 TRANSFER TRNAS 536
DNA-DEPENDENT ATPASE 808
SUBUNIT STRUCTURE OF MOUSE PLASMACYTOMA RNA POLYMERASE III 1064
EFFECT OF ESTROGEN ON GENE EXPRESSION IN THE CHICK OVIDUCT 1137
DNA-BINDING NON-HISTONE PROTEINS 1471
DEGRADATION OF DNA CONTAINING 5-HYDROXYMETHYLCYTOSINE 1561
SURFACE ALTERATIONS IN PERIODATE-OXIDIZED LYMPHOCYTES 1864
EFFECT OF ESTROGEN ON GENE EXPRESSION IN CHICK OVIDUCT 1960
NUCLEIC ACID MELTING BY CALF UNWINDING PROTEINS 2133
CALF UNWINDING PROTEINS AND DNA POLYMERASE-ALPHA TEMPLATE 2142
T5 DNA POLYMERASE, SYNTHESIS WITH STRAND DISPLACEMENT 2168
ELECTRON MICROGRAPHS OF DNA REPLICATED BY T5 DNA POLYMEPASE 2174
TRANSLATION SPECIFICITY OF BACTERIAL RIBOSOMES AND MRNA 2499
LAC REPRESSOR QUATERNARY STRUCTURE 3359
LIMITED PROTEOLYTIC DIGESTION OF LAC REPRESSOR 3386
IMPORTANCE OF FULL-SIZE CDNA IN NUCLEIC ACID HYBRIDIZATION 3425
INHIBITION OF RECBC DNASE BY E. COLI BINDING PROTEIN 3716
SUBUNIT STRUCTURE OF BOMBYX MORI RNA POLYMERASE III 3794
SUBSTANTIAL PURIFICATION OF THE OVALBUMIN CODING DNA STRAND 3868
MUTANT FORMS OF DNA POLYMERASE 4078
MUTANT FORMS OF DNA POLYMERASE 4085
DELAYED INITIATION BY DNA POLYMERASE I 4090
DNA SYNTHESIS AND TURNOVER DURING TADPOLE METAMORPHOSIS 4111
DELTA-CRYSTALLIN DNA REITERATION FREQUENCY 4294
EFFECTS OF ESTROGEN ON GENE EXPRESSION ROLE OF NONHISTONE 4713
ESTRADIOL EFFECT ON SOLUBILIZED UTERINE RNA POLYMERASES 4843
PROGESTERONE RECEPTOR REGULATION OF CHROMATIN TRANSCRIPTION 5166
STEROID RECEPTOR SUBUNIT EFFECTS ON CHROMATIN TRANSCRIPTION 5178
C8120 ANTIMUTATOR T4 DNA POLYMERASE 5219
NUCLEOTIDE SELECTION BY T4 DNA POLYMERASES 5225
EFFECT OF ESTROGEN ON GENE EXPRESSION IN THE CHICK OVIDUCT 5565
PHYSICAL AND CATALYTIC PROPERTIES OF ECO-RI ENDONUCLEASE 5866
HEMOPHILUS EXO V ACTIVITY ON CROSS-LINKED DNA 6117
BINDING OF HEMOPHILUS EXO V TO DNA 6122
EFFECTS OF GENE 32-PROTEIN BINDING ON DNA CONFORMATION 7215
MAPPING OF THE GENE 32-PROTEIN-NUCLEIC ACID BINDING SITE 7229
PARAMETERS FOR GENE 32-PROTEIN BINDING TO NUCLEIC ACIDS 7240
DNA, BINDING PROTEIN
SEE ALSO BINDING PROTEINS
NUCLEIC ACID HELIX-UNWINDING PROTEINS FROM CALF THYMUS 2124
NUCLEIC ACID MELTING BY CALF UNWINDING PROTEINS 2133
CALF UNWINDING PROTEINS AND DNA POLYMERASE-ALPHA TEMPLATE 2142
INHIBITION OF RECBC DNASE BY E. COLI BINDING PROTEIN 3716
C8120 ANTIMUTATOR T4 DNA POLYMERASE 5219
NUCLEOTIDE SELECTION BY T4 DNA POLYMERASES 5225
EFFECTS OF GENE 32-PROTEIN BINDING ON DNA CONFORMATION 7215
MAPPING OF THE GENE 32-PROTEIN-NUCLEIC ACID BINDING SITE 7229
PARAMETERS FOR GENE 32-PROTEIN BINDING TO NUCLEIC ACIDS 7240
REGULATION OF GENE 32 EXPRESSION DURING T4 INFECTION 7251
TRANSLATIONAL, AUTOGENOUS CONTROL OF GENE 32 EXPRESSION 7263
DNA, CELLULOSE
NUCLEIC ACID HELIX-UNWINDING PROTEINS FROM CALF THYMUS 2124
DNA BINDING OF THYROID HORMONE RECEPTORS 7388
DNA, CIRCULAR
INTERACTION OF HISTONE F1 WITH SUPERHELICAL DNA 2334
MITOCHONDRIAL DNA SYNTHESIS IN MOUSE L-CELLS 2938
DNA, COMPLEMENTARY
IMPORTANCE OF FULL-SIZE CDNA IN NUCLEIC ACID HYBRIDIZATION 3425
SYNTHESIS OF THE OVALBUMIN GENE 7355
DNA, CONFORMATION
EFFECTS OF RNASE BINDING ON DNA CONFORMATION AND STABILITY 7198
DNA, DENATURATION
EFFECTS OF RNASE BINDING ON DNA CONFORMATION AND STABILITY 7198
EFFECTS OF GENE 32-PROTEIN BINDING ON DNA CONFORMATION 7215
PARAMETERS FOR GENE 32-PROTEIN BINDING TO NUCLEIC ACIDS 7240
DNA, HELIX-COIL TRANSITION
EFFECTS OF GENE 32-PROTEIN BINDING ON DNA CONFORMATION 7215
DNA, HYBRIDIZATION
ESTROGEN EFFECT ON COMPLEXITY OF POLY(A)-RNA IN OVIDUCT 3738
DNA, INITIATION
SEE ALSO DNA, SYNTHESIS
DNA, KINASE
DNA KINASE FROM NUCLEI OF RAT LIVER 1767
DNA, LIGASE
SEE ALSO DNA, POLYMERASE
SYNTHESIS OF A TYROSINE SUPPRESSOR TRNA PRECURSOR GENE 565
SYNTHESIS OF A TYROSINE SUPPRESSOR TRNA PRECURSOR GENE 634
SYNTHESIS OF A TYROSINE SUPPRESSOR TRNA PRECURSOR GENE 642
SYNTHESIS OF A TYROSINE SUPPRESSOR TRNA PRECURSOR GENE 651
SYNTHESIS OF A TYROSINE SUPPRESSOR TRNA PRECURSOR GENE 658
SYNTHESIS OF A TYROSINE SUPPRESSOR TRNA PRECURSOR GENE 667
SYNTHESIS OF A TYROSINE SUPPRESSOR TRNA PRECURSOR GENE 676
DNA KINASE FROM NUCLEI OF RAT LIVER 1767
PRODUCTS OF LIMITED PROTEOLYSIS OF DNA LIGASE 3432
DNA, MITOCHONDRIAL
MITOCHONDRIAL DNA SYNTHESIS IN MOUSE L-CELLS 2938
DNA, POLYMERASE
SEE ALSO REVERSE TRANSCRIPTASE
FIDELITY OF DNA REPLICATION 975
ON THE FIDELITY OF DNA REPLICATION 982
DNA POLYMERASE III FROM BACILLUS SUBTILIS 1311
CALF UNWINDING PROTEINS AND DNA POLYMERASE-ALPHA TEMPLATE 2142
T5 DNA POLYMERASE, SYNTHESIS WITH STRAND DISPLACEMENT 2168
ELECTRON MICROGRAPHS OF DNA REPLICATED BY T5 DNA POLYMERASE 2174
SEROLOGY OF TERMINAL DEOXYNUCLEOTIDYLTRANSFERASE 2399
PURIFICATION AND PROPERTIES OF ANTIMUTATOR DNA POLYMERASE 2475
TEMPERATURE SENSITIVITY OF ANTIMUTATOR DNA POLYMERASE 2480
IMPORTANCE OF FULL-SIZE CDNA IN NUCLEIC ACID HYBRIDIZATION 3425
ESTROGEN EFFECT ON COMPLEXITY OF POLY(A)-RNA IN OVIDUCT 3738
MUTANT FORMS OF DNA POLYMERASE 4078
MUTANT FORMS OF DNA POLYMERASE 4085
DELAYED INITIATION BY DNA POLYMERASE I 4090
PROMOTER SEQUENCE OF TYROSINE TRNA GENE 4481
NUCLEOTIDE SEQUENCES AT THE TWO ENDS OF TRNA-TYR GENES 5124
C8120 ANTIMUTATOR T4 DNA POLYMERASE 5219
NUCLEOTIDE SELECTION BY T4 DNA POLYMERASES 5225
NUCLEAR LOCATION OF MAMMALIAN DNA POLYMERASE ACTIVITIES 7893
DNA, PROTEIN INTERACTIONS
NUCLEIC ACID MELTING BY CALF UNWINDING PROTEINS 2133
EFFECTS OF RNASE BINDING ON DNA CONFORMATION AND STABILITY 7198
EFFECTS OF GENE 32-PROTEIN BINDING ON DNA CONFORMATION 7215
MAPPING OF THE GENE 32-PROTEIN-NUCLEIC ACID BINDING SITE 7229
DNA, RELAXED
H5 HISTONE AND DNA-RELAXING ENZYME OF CHICKEN ERYTHROCYTES 7363
DNA, REPAIR
SEE ALSO DNA, POLYMERASE
SEE ALSO DNA, SYNTHESIS
E. COLI ENDONUCLEASE III 1438
HUMAN CORREXONUCLEASE A REPAIR ENZYME FROM PLACENTA 4579
DNA, REPLICATION
SEE ALSO DNA, POLYMERASE
SEE ALSO DNA, SYNTHESIS
DNA, SUPERCOILED
INTERACTION OF HISTONE F1 WITH SUPERHELICAL DNA 2334
DNA, SUPERHELICAL
H5 HISTONE AND DNA-RELAXING ENZYME OF CHICKEN ERYTHROCYTES 7363
DNA, SYNTHESIS
SEE ALSO DNA, POLYMERASE
DIFFERENTIATION OF LYMPHOID CELLS 2469
A MEMBRANE PROTEIN INVOLVED IN DNA INITIATION 3470
HERPES VIRUS-INDUCED INCORPORATION OF AIDURD INTO DNA 4833
DNA SYNTHESIS AND CELL DIFFERENTIATION IN CARDIAC MUSCLE 6082
DNA, SYNTHESIS (CHEMICAL)
SYNTHESIS OF A TYROSINE SUPPRESSOR TRNA PRECURSOR GENE 565
SYNTHESIS OF A TYROSINE SUPPRESSOR TRNA PRECURSOR GENE 571
SYNTHESIS OF A TYROSINE SUPPRESSOR TRNA PRECURSOR GENE 587
SYNTHESIS OF A TYROSINE SUPPRESSOR TRNA PRECURSOR GENE 599
SYNTHESIS OF A TYROSINE SUPPRESSOR TRNA PRECURSOR GENE 609
SYNTHESIS OF A TYROSINE SUPPRESSOR TRNA PRECURSOR GENE 624
SYNTHESIS OF A TYROSINE SUPPRESSOR TRNA PRECURSOR GENE 634
SYNTHESIS OF A TYROSINE SUPPRESSOR TRNA PRECURSOR GENE 642
SYNTHESIS OF A TYROSINE SUPPRESSOR TRNA PRECURSOR GENE 651
SYNTHESIS OF A TYROSINE SUPPRESSOR TRNA PRECURSOR GENE 658
SYNTHESIS OF A TYROSINE SUPPRESSOR TRNA PRECURSOR GENE 667
SYNTHESIS OF A TYROSINE SUPPRESSOR TRNA PRECURSOR GENE 676
DNA, TRANSCRIPTION
SEE ALSO RNA, SYNTHESIS
DNA, UNWINDING PROTEINS
SEE ALSO BINDING PROTEINS
SEE ALSO DNA, BINDING PROTEIN
SEE ALSO PROTEIN, BINDING
SEE ALSO PROTEIN, DNA-BINDING
SEE ALSO PROTEIN, UNWINDING
DNASE
SEE ALSO NUCLEASES
PROTEIN INHIBITOR OF ACID DEOXYRIBONUCLEASES 116
ENDONUCLEASE III OF E. COLI IS EXONUCLEASE III 1896
5-PRIME-3-PRIME EXONUCLEASES OF BACTERIOPHAGE T4 2613
INHIBITION OF RECBC DNASE BY E. COLI BINDING PROTEIN 3716
HEMOPHILUS EXO V ACTIVITY ON CROSS-LINKED DNA 6117
BINDING OF HEMOPHILUS EXO V TO DNA 6122
DNA DEGRADATION BY HEMOPHILUS EXONUCLEASE B 6127
PURIFICATION OF AN ENDONUCLEASE FROM NUCLEI OF 3T3 CELLS 7746
DNASE, RESTRICTION
SYNTHESIS OF THE OVALBUMIN GENE 7355

DODECYL SULFATE
SEE ALSO SODIUM DODECYL SULFATE
BINDING OF URACIL DERIVATIVES TO HYDROPHOBIC PEPTIDES 6924
DOLICHOL
FORMATION OF LIPID-SACCHARIDE INTERMEDIATE BY THYROID SLICES 6408
STRUCTURE OF A THYROID OLIGOSACCHARIDE-LIPID INTERMEDIATE 6409
DPN
SEE ALSO NAD
DPNH
SEE ALSO NADH
DYNEIN
NUCLEOTIDE METABOLIZING ENZYMES IN CHLAMYDOMONAS FLAGELLA 182
DYNEIN 2 ATPASE FROM SEA URCHIN SPERM FLAGELLA 5793

E

ECTOENZYMES
SEE ALSO COMPARTMENTATION
EDTA
SEE ALSO CALCIUM, MAGNESIUM
NICOTINAMIDE ADENINE DINUCLEOTIDE OXIDATION BY SUPEROXIDE 3841
MEMBRANE PERMEABILITY AND MICROSOMAL GLUCOSE-6-PHOSPHATASE 4961
EGASYN
EGASYN, A PROTEIN STABILIZING GLUCURONIDASE MEMBRANE BINDING 7753
EGG YOLK PROTEINS
ESTROGEN INDUCTION OF VITELLOGENIN MESSENGER RNA 3105
EHRLICH ASCITES CELLS
ALPHA-N-ACETYLATION OF EHRLICH ASCITES PROTEINS 1069
EICOSATRIENOIC ACID
OXYGENATION OF UNSATURATED FATTY ACIDS IN RABBIT LEUKOCYTES 7816
EIMERIA TENELLA
GLYCOPROTEIN OF EIMERIA TENELLA OOCYSTS 302
ELASTIN
ELASTIN BIOSYNTHESIS FROM SOLUBLE ELASTIN IN VITRO 1125
COACERVATES OF ELASTIN PEPTIDES 6871
ELECTRIC ORGAN
AFFINITY PARTITIONING OF MEMBRANES 858
ELECTRIC POTENTIAL
BIOLOGICAL ELECTRIC GENERATORS. BACTERIORHODOPSIN 7059
BIOLOGICAL ELECTRIC GENERATORS. CHLOROPHYLL COMPLEXES 7066
BIOLOGICAL ELECTRIC GENERATORS. CYTOCHROME OXIDASE 7072
BIOLOGICAL ELECTRIC GENERATORS. H-PLUS-ATPASE 7077
ELECTRON FLOW
MITOCHONDRIAL H+/SITE RATIO 7442
ELECTRON MICROSCOPY
ELECTRON MICROGRAPHS OF DNA REPLICATED BY T5 DNA POLYMERASE 2174
ELECTRON PARAMAGNETIC RESONANCE
SEE ALSO SPIN LABELS
CONFORMATIONAL CHANGE IN TRNA-PHE UPON AMINOACYLATION 1529
EPR STUDY OF NITROSYL-TRYPTOPHAN-2,3-DIOXYGENASE 1578
THE NNADP COMPLEX WITH MYOSIN SUBFRAGMENT 1 1975
THERMODYNAMICS + EPR CHARACTERISTICS OF FE-S CENTERS OF SOH 2094
A MIPIP-TYPE IRON-SULFUR CENTER IN SUCCINATE DEHYDROGENASE 2105
STRUCTURE OF CREATINE KINASE-SUBSTRATE COMPLEXES 2777
LIGAND BINDING TO TWO ADRENAL MITOCHONDRIAL P450 CYTOCHROMES 3706
IRON SUPEROXIDE DISMUTASE FROM E. COLI 5472
EPR OF TUNGSTEN-CONTAINING SULFITE OXIDASE 5505
ADRENAL MITOCHONDRIAL P 450 6068
LEGHEMOGLOBIN AND ITS COMPLEXES WITH NICOTINATE AND ACETATE 6090
EVIDENCE FOR MN(III) BINDING TO MANGANOSUPEROXIDE DISMUTASE 6157
SPIN LABEL STUDIES ON APOMEHOGLOBIN 6838
TEMPERATURE EFFECTS ON ADRENAL CORTICAL CYT P-450SCC 7128
SPECTRAL AND EPR STUDIES ON ROLE OF IRON IN LIPOXYGENASE 7144
ADRENODOXIN REDUCTASE ADRENODOXIN 1 1 COMPLEX+ PROPERTIES 7545
TWO HOMOGENEOUS FORMS OF LIVER MICROSOMAL CYTOCHROME P 450 7929
ELECTRON SPIN RESONANCE
LIPID ACTIVATION OF A MEMBRANE ENZYME. BIOPHYSICAL STUDIES 1270
DETERGENT ACTIVATION OF A PURIFIED MEMBRANE ENZYME 1277
LOCATION OF SUBSTRATE SITE OF SUCCINATE DEHYDROGENASE 2369
ROLE OF PHOSPHOLIPIDS IN THE CALCIUM-DEPENDENT ATPASE 4224
THIOL GROUP AND FE+++ REQUIREMENT FOR UTERINE PHOSPHATASE 4688
CORRECTION TO HIDALGO ET AL VOL. 251 (1976) P. 4224 6168
MECHANISM FOR SELF-DEACTIVATION OF PROSTAGLANDIN SYNTHETASE 7329
CALCIUM BINDING TO TROPONIN C 7551
ELECTRON TRANSFER
SEE ALSO CYTOCHROME
SEE ALSO IRON-SULFUR PROTEINS
SEE ALSO RESPIRATION
SEE ALSO TRANSPORT, PROTON
EUKARYOTIC CYTOCHROMES C REACTIONS WITH MITOCHONDRIAL ENZYME 1104
1-ELECTRON REDOX REACTIONS BY FAST PULSE CYT-C/FERRICYANIDE 4336
ELECTRON TRANSPORT
AMINO ACID SEQUENCE OF R. GELATINOSA MIPIP 129
ORGANIZATION OF CHLOROPLAST MEMBRANES IN C. REINHARDI 247
STOICHIOMETRY OF PROTON EJECTION DURING CALCIUM UPTAKE 968
PHOTOPHOSPHORYLATION AND INTERNAL H-PLUS CONCENTRATION 1610
PURIFICATION OF PULMONARY CYTOCHROME P-450 3213
ADRENODOXIN REDUCTASE INTERACTION WITH PYRIDINE NUCLEOTIDES 4299
DELTA-9-TETRAHYDROCANNABINOL AND NADH-OXIDASE 5802
STOICHIOMETRY OF MITOCHONDRIAL PROTON EJECTION 5670
PURIFICATION OF E. COLI RESPIRATORY CHAIN NADH DEHYDROGENASE 5911
ACYL-CO A DESATURASE OF ADIPOSE TISSUE AND LIVER 7468
ADRENODOXIN REDUCTASE ADRENODOXIN 1 1 COMPLEX+ PROPERTIES 7545
ELECTRONIC STRUCTURE
ELECTRONIC STRUCTURE AND BONDING IN AMINO ACIDS 5992
ELECTROPHORESIS
2-D ELECTROPHORESIS OF ERYTHROCYTE MEMBRANE PROTEINS 253
CREATINE KINASE AS A CONTAMINANT OF MUSCLE TROPONIN 7001
ELECTROPHORESIS, GEL
NON-HISTONE CHROMOSOMAL PROTEINS FROM HELA CELLS 548
PROTEINS OF FRIEND LEUKEMIA CELLS 555
TRANSLATION SPECIFICITY OF BACTERIAL RIBOSOMES AND MRNA 2499
HISTONES OF NEUROSPORA CRASSA 4131
SUBUNIT COMPOSITION OF ISOLATED HAPTOGLOBIN 2-1 POLYMERS 5845
CHEMICAL CROSS-LINKING OF CHLOROPLAST COUPLING FACTOR 1 6953
ELECTROPHORESIS, TWO DIMENSIONAL GEL
STOICHIOMETRY OF HELA NUCLEOLAR RIBOSOMAL PROTEINS 2867
EXCHANGE AND STABILITY OF HELA RIBOSOMAL PROTEINS IN VIVO 2876
ELECTROPHORETIC DIFFUSION
CRYSTALLIZATION OF ESTRADIOL 17-BETA-DEHYDROGENASE 3708
ELONGATION FACTORS
SEE ALSO PROTEIN, SYNTHESIS
STRINGENT CONTROL OF ELONGATION FACTORS 898
SELECTIVE MODIFICATION OF A CYSTEINE IN ELONGATION FACTOR G 930
ELONGATION FACTOR G BINDING TO THE RIBOSOME 1795
PURIFICATION OF EF-1-BETA, NEW ELONGATION FACTOR FROM LIVER 1843
ASSOCIATION OF EF-TU.TS IN Q-BETA REPLICASE 2740
ANTIBODIES AND Q-BETA REPLICASE 2744
EFFECT OF EF-TU INHIBITORS ON Q-BETA REPLICASE RENATURATION 2749
INTERACTIONS OF ADPRIB-EF-2 WITH RIBOSOMES 6544
EMBRYOS
SEE ALSO DEVELOPMENT
SEE ALSO DIFFERENTIATION
SUBUNIT COMPOSITION OF EMBRYONIC CHICK LENS S-CRYSTALLIN 4416
GLUCOSE EFFECT ON KINETICS OF MUCOPOLYSACCHARIDE SYNTHESIS 6218
MEMBRANES OF DEVELOPING CHICK ERYTHROCYTES 6667
CYTOPLASMIC NONPOLYSOMAL MYOSIN HEAVY CHAIN MRNP 7688
ENCEPHALOMYOCARDITIS VIRUS
CHARACTERIZATION OF EIF-3 1926
METHYLATED GUANOSINE NUCLEOTIDE INHIBITS HELA TRANSLATION 5657
ENDODERM
BASEMENT MEMBRANE PROCOLLAGEN IN PARIETAL YOLK SAC CULTURES 1789
ENDOGALACTOSIDASE
SEE ALSO GALACTOSIDASE
ENDO-BETA-GALACTOSIDASE HYDROLYSIS OF COMPLEX CARBOHYDRATES 6218
ENDONUCLEASES
SEE ALSO DNASE
SEE ALSO NUCLEASES
SEE ALSO RNASE
NONSPECIFIC CLEAVAGE OF PHI-X 174 RF I BY N. CRASSA NUCLEASE 538
E. COLI ENDONUCLEASE III 1438
ENDONUCLEASE II OF E. COLI IS EXONUCLEASE III 1896
PURIFICATION OF AN ENDONUCLEASE FROM NUCLEI OF 3T3 CELLS 7746
ENDOPEPTIDASES
SEE ALSO PROTEASES
ENDOPEROXIDES
MECHANISM FOR SELF-DEACTIVATION OF PROSTAGLANDIN SYNTHETASE 7329
ENDOPLASMIC RETICULUM
CARBON TETRACHLORIDE AND LIVER MICROSOMAL CALCIUM UPTAKE 1197
MEMBRANE PERMEABILITY AND MICROSOMAL GLUCOSE-6-PHOSPHATASE 4901
SYNTHESIS IN VITRO OF INTRINSIC MEMBRANE PROTEINS 5054
PLASMA MEMBRANE IS ORIGIN OF SEMLIKI FOREST VIRUS ENVELOPE 5544
CALCIUM TRANSPORT BY ADIPOCYTE ENDOPLASMIC RETICULUM 7191
ENDORIBONUCLEASE
SEE ALSO RNASE
ENDOTHELIUM
SYNTHESIS OF BASEMENT MEMBRANE COLLAGEN BY ENDOTHELIUM 730
ENERGY CHARGE
SEE ALSO ADENYLATE ENERGY CHARGE
ENERGY COUPLING
SEE ALSO TRANSPORT, PROTON
STOICHIOMETRY OF MITOCHONDRIAL PROTON EJECTION 5670
BIOLOGICAL ELECTRIC GENERATORS. CYTOCHROME OXIDASE 7072
BIOLOGICAL ELECTRIC GENERATORS. H-PLUS-ATPASE 7077
TIGHTLY BOUND NUCLEOTIDES IN ETPH 7110
ENERGY-DEPENDENT AMINO GROUP EXPOSURE ON CHLOROPLAST CF1 7160
A NONELECTROGENIC H+ PUMP IN HOG GASTRIC MEMBRANE 7690
ENERGY TRANSDUCTION
ACTIVE TRANSPORT OF AMINO ACIDS IN MYCOBACTERIUM PHLEI 2493
PURIFICATION OF THE CARBODIIMIDE-REACTIVE PROTEIN 6630
MITOCHONDRIAL H+/SITE RATIO 7442
ENERGY TRANSFER
ENERGY TRANSFER STUDIES ON PROTEASE INHIBITOR COMPLEXES 769
FLUORESCENT IMMUNOCHEMICAL METHOD EMPLOYING ENERGY TRANSFER 4172
ENTAMOEBA HISTOLYTICA
6-PHOSPHOFRUCTOKINASE (PYROPHOSPHATE) 2956
ENTEROTOXIN
TRYPSIN-SUSCEPTIBLE PEPTIDE BONDS IN ENTEROTOXIN C 5588
ENTHALPY
RECOMMENDATIONS FOR PRESENTING BIOCHEMICAL EQUILIBRIUM DATA 6879
TEMPERATURE EFFECTS ON ADRENAL CORTICAL CYT P-450SCC 7128
ENTROPY
SEE ALSO THERMODYNAMICS
RECOMMENDATIONS FOR PRESENTING BIOCHEMICAL EQUILIBRIUM DATA 6879
TEMPERATURE EFFECTS ON ADRENAL CORTICAL CYT P-450SCC 7128
ENZYME REGULATION
SEE ALSO ENZYMES, REGULATION
ENZYMES
SEE ALSO PROTEINS
ENZYMES, ACTIVE SITE
SEE ALSO ACTIVE SITE-LABELING
SEE ALSO SPECIFIC ENZYMES
LOCATION OF SUBSTRATE SITE OF SUCCINATE DEHYDROGENASE 2369
SUBSTRATE CONFORMATIONS ON PYRUVATE KINASE 2431
TYROSINE RESIDUES IN PORCINE MUSCLE ADENYLATE KINASE 3421
AA SEQUENCE OF ACTIVE SITE PEPTIDES FROM SUCRASE-ISOMALTASE 3250
COMPARATIVE BINDING AND RATE STUDY OF AMP NUCLEOSIDASE 3417
AFFINITY LABELING OF PHOSPHOGLYCERATE MUTASE 4565
THE PK OF LYS-258 IN ASPARTATE TRANSAMINASE 5663
13C NMR AND ASPARTATE TRANSCARBAMYLASE 5976
INACTIVATION OF CYTO MALATE DEHYDROGENASE BY PYRIDOXAL-5-P 6384
ENZYMES, ASSEMBLY
SEE ALSO PROTEIN, SYNTHESIS
ENZYMES, CONFORMATION
SEE ALSO PROTEIN, CONFORMATION
ENZYMES, DEGRADATION
SEE ALSO PROTEIN, DEGRADATION
SEE ALSO PROTEIN, TURNOVER
ENZYMES, IMMOBILIZED
SEE ALSO CHROMATOGRAPHY, AFFINITY
ENZYMES, INACTIVATION
PH INDUCED STRUCTURAL CHANGES IN PHOSPHOFRUCTOKINASE 5630
ENZYMES, INDUCTION
SEE ALSO ENZYMES, REGULATION
ENZYMES, ISOZYMES
SEE ALSO ISOZYMES
ENZYMES, KINETICS
SEE ALSO KINETICS
ENZYMES, MECHANISMS
SEE ALSO SPECIFIC ENZYMES
ALKYLATION OF METHIONINE IN FUMARASE BY BENZYL BROMIDE 5711
A NONCLASSICAL TRI UNI UNI PING PONG MECHANISM 7920
ENZYMES, MEMBRANE-BOUND
HOMOLOGY OF PULMONARY ANGIOTENSIN-CONVERTING ENZYMES 4826
ENZYMES, MODIFICATION
SEE ALSO PROTEIN, MODIFICATION
ENZYMES, MULTIFUNCTIONAL
A MULTIFUNCTIONAL ENZYME IN TRYPTOPHAN SYNTHESIS IN EUGLENA 7774
ENZYMES, POLYMORPHISM
SEE ALSO ISOZYMES
ENZYMES, REGULATION
SEE ALSO PROTEIN, TURNOVER
ENZYMES, REGULATION IN VITRO (ANIMAL)
INHIBITION OF GLUCOSE-6-PHOSPHATASE BY PYRIDOXAL PHOSPHATE 1035
RABBIT SKELETAL MUSCLE GLYCOGEN SYNTHASE I 1913
RABBIT SKELETAL MUSCLE GLYCOGEN SYNTHASE II 1928
ACTION OF PHOSPHORYLASE PHOSPHATASE ON GLYCOGEN SYNTHASE B 2363
FE(II) AND P-ENOLPYRUVATE CARBOXYKINASE FERROACTIVATOR 2922
CYCLIC GMP, CA2-PLUS AND GLYCOGENOLYSIS BY LIVER CELLS 2987
MALIC ENZYME SYNTHESIS IN CULTURE 3027
SYNTHESIS AND DEGRADATION OF FOLATE REDUCTASE 3063
OVERPRODUCTION OF DIHYDROFOLATE REDUCTASE 3075
PROTEIN KINASES DURING THE CELL CYCLE 3313

REGULATION OF NEUROBLASTOMA ADENYLATE CYCLASE 3399
REGULATORY PROPERTIES OF ASCARIS NAD-MALIC ENZYME 3599
PROTEIN BINDING TO GALACTOSYLTRANSFERASE 3653
CATECHOLAMINE INACTIVATION OF PHENYLALANINE HYDROXYLASE 3671
ACTION OF P-CHLOROPHENYLALANINE OF PHENYLALANINE HYDROXYLASE 3677
CYCLIC 3-PRIME 5-PRIME-NUCLEOTIDE PHOSPHODIESTERASE 4193
REGULATION OF ADENYLATE CYCLASE BY ADENOSINE 4239
EFFECTS OF TRYPSIN ON GLYCOGEN SYNTHETASE 4359
BIOSYNTHESIS OF ORNITHINE DECARBOXYLASE 4436
SIMILARITIES BETWEEN CALCIUM-DEPENDENT REGULATORY PROTEINS 4501
AUTOACTIVATION OF PHOSPHORYLASE KINASE 4521
HOMOLOGY OF PULMONARY ANGIOTENSIN-CONVERTING ENZYMES 4828
ALLOSTERIC REGULATION OF HEXOKINASE C FROM AMPHIBIAN LIVER 5035
PHOSPHORYLATION OF PHENYLALANINE HYDROXYLASE 5310
PH INDUCED REGULATORY KINETICS OF PHOSPHOFRUCTOKINASE 5644
PHOSPHOFRUCTOKINASE REGULATION IN A THYROID TUMOR 6244
PHOSPHOLIPID INHIBITION OF GLYCOLYSIS IN BRAIN 7149
ACTIVATION OF RAT LUNG GUANYLATE CYCLASE BY INCUBATION 7304
REGULATION OF DE NOVO PURINE SYNTHESIS IN HUMAN LYMPHOBLASTS 7348
PHOSPHORYLASE KINASE AUTOPHOSPHORYLATION AND SUBSTRATES 7480
LATENCY OF INOSINE 5-PRIME-DIPHOSPHATASE 7821

ENZYMES, REGULATION IN VITRO (BACTERIAL)
NADH ACTIVATED PHOSPHOENOLPYRUVATE CARBOXYLASE 2754
REGULATION OF ACETATE KINASE BY SUCCINATE AND SUBSTRATES 3117
COMPARATIVE BINDING AND RATE STUDY OF AMP NUCLEOSIDASE 3417
REGULATION OF ESCHERICHIA COLI GLUTAMINASE B. I 3447
REGULATION OF ESCHERICHIA COLI GLUTAMINASE B. II 3457
REGULATION OF ESCHERICHIA COLI GLUTAMINASE B. III 3463
PROPERTIES OF KETOPANTOATE HYDROXYMETHYLTRANSFERASE 3786
3-DEOXY-D-ARABINO-HEPTULOSONATE 7-PHOSPHATE SYNTHASE 5440
PURIFICATION OF E. COLI RESPIRATORY CHAIN NADH DEHYDROGENASE 5911
KINETIC AND IMMUNOLOGICAL STUDY OF NADH DEHYDROGENASE 5921
TRANSLATIONAL, AUTOGENOUS CONTROL OF GENE 32 EXPRESSION 7263

ENZYMES, REGULATION IN VITRO (FUNGAL)
KINETICS OF NUCLEASE O AND NUCLEASE INHIBITOR OF ASPERGILLUS 2808

ENZYMES, REGULATION IN VITRO (PLANTS)
CHLOROPLAST NADP-GLYCERALDEHYDE 3-PHOSPHATE DEHYDROGENASE 6456

ENZYMES, REGULATION IN VIVO (ANIMAL)
SEE ALSO PROTEIN, KINASES
CONTROL OF MONOOXYGENASE AND EPOXIDE HYDRATASE 79
AMINOLEVULINIC ACID SYNTHASE 1347
PHOSPHOFRUCTOKINASE STABILIZING FACTOR FROM LIVER 2323
STEROID REGULATION OF ENZYME SYNTHESIS IN RAT LIVER IN VIVO 2571
25-HYDROXYVITAMIN D3-1-ALPHA-HYDROXYLASE 3158
REGULATION OF 6-PHOSPHOGLUCONATE DEHYDROGENASE SYNTHESIS 3539
REGULATION OF PHOSPHOENOLPYRUVATE CARBOXYKINASE DEGRADATION 3586
CONTROL OF ALPHA 2U GLOBULIN MRNA BY SEX HORMONES 3594
ACTION OF P-CHLOROPHENYLALANINE OF PHENYLALANINE HYDROXYLASE 3677
REGULATION OF HEPATIC PYRUVATE KINASE 3756
EFFECT OF COBALT ON SYNTHESIS OF HEME AND CYTOCHROME P 450 4421
EFFECTS OF ESTROGEN ON GENE EXPRESSION ROLE OF NONHISTONE 4713
STEREOSPECIFIC BINDING TO TODD BY HEPATIC CYTOSOL 4936
AMINOLEVULINIC ACID SYNTHETASE IN THE HEART 4996
MAMMALIAN MEMBRANES WITH ALTERED PHOSPHOLIPID COMPOSITION 5015
ALLOSTERIC REGULATION OF HEXOKINASE C FROM AMPHIBIAN LIVER 5035
MECHANISM OF REGULATION OF OMEGA-OXIDATION OF FATTY ACIDS 5259
INSULIN EFFECTS ON HEART GLYCOGEN SYNTHASE PHOSPHATASE 6724

ENZYMES, REGULATION IN VIVO (BACTERIAL)
REGULATION OF ADENYLATE CYCLASE BY PTS ENZYMES II 2462
POLYPEPTIDE SYNTHESIS DUPING INDUCTION OF BIOLUMINESCENCE 2541
L-ASPARAGINASE OF KLEBSIELLA AEROGENES 2722
POST-TRANSCRIPTIONAL CONTROL OF BETA-GALACTOSIDASE SYNTHESIS 2854
LAC REPRESSOR QUATERNARY STRUCTURE 3359
PURIFICATION OF THE PNEUMOCOCCAL AUTOLYSIN (AMIDASE) 4199
CORRECTION TO MICHALISZYN + MEIGHEN VOL. 251 (1976) P. 2541 4479
ACP METABOLISM AND REGULATION IN LACTOBACILLUS 4706
MUTANTS OF BACTERIAL PHOSPHOTRANSFERASE SYSTEM 6584
EFFECT OF CRR MUTATION ON REPRESSION OF ENZYME SYNTHESIS 6598
INDUCER EXCLUSION AND REGULATION OF SUGAR TRANSPORT SYSTEMS 6606

ENZYMES, REGULATION IN VIVO (YEAST)
MITOCHONDRIAL POLYSOMES 108

ENZYMES, REPRESSION
SEE ALSO ENZYMES, REGULATION IN VIVO

ENZYMES, STEREOSPECIFICITY
STEREOSPECIFICITY IN SPHINGANINE 1-PHOSPHATE LYASE REACTION 4448

ENZYMES, SUBUNITS
SEE ALSO PROTEIN, SUBUNITS

ENZYMES, SYNTHESIS
SEE ALSO PROTEIN, SYNTHESIS
SEE ALSO PROTEIN, TURNOVER

ENZYMES, TURNOVER
SEE ALSO PROTEIN, TURNOVER

ENZYMES, VARIANTS
SEE ALSO ISOZYMES

EPIDERMAL GROWTH FACTOR
ESTEROPEPTIDASES OF NERVE AND EPIDERMAL GROWTH FACTORS 165
A MODIFICATION WHICH AFFECTS THE STABILITY OF HNN-EGF 1188

EPIDIDYMIS
ADENINE NUCLEOTIDE LEVELS OF SPERM 787
BINDING PROPERTIES OF ANDROGEN RECEPTORS 5620

EPIMERS
THE FRUCTOSE 6-PHOSPHATE SITE OF PHOSPHOFRUCTOKINASE 2983

EPINEPHRINE
SEE ALSO ADENYLATE CYCLASE
SEE ALSO CATECHOLAMINES
EFFECTS OF PROTEIN KINASE ON SARCOPLASMIC RETICULUM 725
AMINO ACID RELEASE IN SKELETAL MUSCLE 851
HORMONAL CONTROL OF PROTEIN PHOSPHORYLATION IN FAT CELLS 1511
ADENYLATE CYCLASE ACTIVITY IN SECRETORY VESICLES 2179
CYCLIC GMP, CA2-PLUS AND GLYCOGENOLYSIS BY LIVER CELLS 2987
CATECHOLAMINE INACTIVATION OF PHENYLALANINE HYDROXYLASE 3671
ALPHA-ADRENERGIC ACTIVATION OF HEPATIC GLUCOSE OUTPUT I. 5200
ALPHA-ADRENERGIC ACTION IN LIVER. II 5209

EPIPHYSIS
ANDROGEN RECEPTORS IN RAT BRAIN 4047

EPITESTOSTERONE
ANDROGEN RECEPTORS IN RAT BRAIN 4047

EPITROCHLARIS
AMINO ACID RELEASE IN SKELETAL MUSCLE 826

EPOXIDE HYDRATASE
CONTROL OF MONOOXYGENASE AND EPOXIDE HYDRATASE 79
CORRECTION TO LU ET AL. VOL. 253 (1975) P. 8283 1219
ENZYME MEDIATED MUTAGENESIS OF BENZPYRENE 4882

EQUILENIN
PLACENTAL 38ETA-OH-STEROID DEHYDROGENASE DELTA-5 ISOMERASE 1632

EQUILIBRIUM
RECOMMENDATIONS FOR PRESENTING BIOCHEMICAL EQUILIBRIUM DATA 6879

ERGOT ALKALOIDS
IDENTIFICATION OF ALPHA-ADRENERGIC RECEPTORS 6915

ERWINIA HERBICOLA
NUCLEOSIDE PHOSPHOTRANSFERASE FROM ERWINIA HERBICOLA 2330

ERYTHROCYTES
SEE ALSO RED BLOOD CELLS
SEE ALSO RETICULOCYTES

ERYTHROID CELLS
SEE ALSO HEMOGLOBIN
SEE ALSO RED BLOOD CELLS

ERYTHROMYCIN
PEPTIDYL TRANSFER RNA DISSOCIATES FROM RIBOSOMES OF E. COLI 3392

ERYTHROSE 4-PHOSPHATE
3-DEOXY-D-ARABINO-HEPTULOSONATE 7-PHOSPHATE SYNTHASE 5440

ESCHERICHIA COLI
SEE ALSO BACTERIOPHAGE
SEE ALSO SPECIFIC ENZYME
CORRECTION TO SAIER ET AL VOL. 250 (1975) P. 7593 1531
REGULATION OF ADENYLATE CYCLASE BY PTS ENZYMES II 2462
TRANSLATION SPECIFICITY OF BACTERIAL RIBOSOMES AND MRNA 2499
PHOSPHATIDYLSERINE SYNTHETASE MUTANTS OF ESCHERICHIA COLI 3242
PEPTIDYL TRANSFER RNA DISSOCIATES FROM RIBOSOMES OF E. COLI 3392
MUTANT FORMS OF DNA POLYMERASE 4078
MUTANT FORMS OF DNA POLYMERASE 4685
MEMBRANE DERIVED OLIGOSACCHARIDES OF ESCHERICHIA COLI 4208
C8128 ANTIMUTATOR T4 DNA POLYMERASE 5219
NUCLEOTIDE SELECTION BY T4 DNA POLYMERASES 5225
SYNTHESIS OF RIBOSOMAL PROTEINS L7L12 5516
PURIFICATION OF E. COLI RESPIRATORY CHAIN NADH DEHYDROGENASE 5911
LIPOPROTEIN MRNA FROM ESCHERICHIA COLI 6259
COLICINS CAUSE DISAPPEARANCE OF MEMBRANE PROTEINS 7577

ESCHERICHIA COLI MRE 600
TRANSLATION SPECIFICITY OF BACTERIAL RIBOSOMES AND MRNA 2499

ESCHERICHIA FREUNDII
ENDO-BETA-GALACTOSIDASE HYDROLYSIS OF COMPLEX CARBOHYDRATES 6218

ESTERASES
SEE ALSO CARBOXYPEPTIDASE
NEW VITAMIN K-DEPENDENT ZYMOGEN 3052
RATE-LIMITING STEPS FOR ALDEHYDE DEHYDROGENASE REACTIONS 3853
PIG ADIPOSE TISSUE LIPASE 6267

ESTRADIOL
SEE ALSO ESTROGENS
SEE ALSO STEROIDS
KINETIC PROPERTIES OF HUMAN PLACENTAL AROMATASE 1625
ESTRADIOL EFFECT ON SOLUBILIZED UTERINE RNA POLYMERASES 4843

ESTRADIOL RECEPTOR
SEE ALSO RECEPTORS, HORMONAL

ESTRADIOL 17BETA-DEHYDROGENASE
CRYSTALLIZATION OF ESTRADIOL 17-BETA-DEHYDROGENASE 3700

ESTROGENS
SEE ALSO STEROIDS
NUCLEAR ESTROGEN RECEPTOR AND INITIATION OF RNA SYNTHESIS 516
IN VITRO SYNTHESIS OF OVALBUMIN MRNA 524
EFFECT OF ESTROGEN ON GENE EXPRESSION IN THE CHICK OVIDUCT 1137
KINETIC PROPERTIES OF HUMAN PLACENTAL AROMATASE 1625
EFFECT OF ESTROGEN ON GENE EXPRESSION IN CHICK OVIDUCT 1960
ESTROGEN INDUCTION OF VITELLOGENIN MESSENGER RNA 3105
CONTROL OF ALPHA 2U GLOBULIN MRNA BY SEX HORMONES 3594
ESTROGEN EFFECT ON COMPLEXITY OF POLY(A)-RNA IN OVIDUCT 3738
THIOL GROUP AND FE+++ REQUIREMENT FOR UTERINE PHOSPHATASE 4680
EFFECTS OF ESTROGEN ON GENE EXPRESSION ROLE OF NONHISTONE 4713
STEROID RECEPTOR SUBUNIT EFFECTS ON CHROMATIN TRANSCRIPTION 5178
CORTICOSTEROID-BINDING PROTEINS IN COLOSTRUM AND MILK 5272
EFFECT OF ESTROGEN ON GENE EXPRESSION IN THE CHICK OVIDUCT 5565
NON-HISTONES ARE POSITIVE REGULATION OF OVALBUMIN GENE 6475

ETHANESULFONATE
BUFFER AND PH EFFECTS ON BRAIN-SPECIFIC PROTEIN ACCUMULATION 5112

ETHANOL
HORSE LIVER ALDEHYDE DEHYDROGENASE ISOZYMES 236
EFFECT OF HYDROGEN SHUTTLES ON FATTY ACID OXIDATION 277
HEPATIC MITOCHONDRIAL ACETALDEHYDE OXIDATION 4908
ETHANOL OXICATION BY RAT HEPATOCELLULAR CARCINOMA 5366
HORMONAL CONTROL OF DIHYDROXYACETONE AND GLYCEROL METABOLISM 7841

ETHANOLAMINE AMMONIA LYASE
MECHANISM OF A COBALAMIN-DEPENDENT ENZYME 3734

ETHANOLAMINE PHOSPHATE
STEREOSPECIFICITY IN SPHINGANINE 1-PHOSPHATE LYASE REACTION 4448

ETHIDIUM BROMIDE
SEE ALSO DNA
INTERACTION OF HISTONE F1 WITH SUPERHELICAL DNA 2334
MITOCHONDRIAL DNA SYNTHESIS IN MOUSE L-CELLS 2938

ETHOXYCOUMARIN
MULTIPLE FORMS OF RAT LIVER CYTOCHROME P 450 1385

ETHOXYFORMYLATION
ETHOXYFORMYLATION OF SARCOPLASMIC RETICULUM VESICLES 4322

ETHYLENEDIAMINE TETRAACETATE
SEE ALSO EDTA

ETHYLISOCYANIDE
GENETICS OF METYRAPONE AND ETHYL ISOCYANIDE BINDING TO P 450 5397

EUGLENA GRACILIS
A MULTIFUNCTIONAL ENZYME IN TRYPTOPHAN SYNTHESIS IN EUGLENA 7774

EVOLUTION
AMINO ACID SEQUENCE OF R. GELATINOSA HIPIP 129
BINDING OF URACIL DERIVATIVES TO HYDROPHOBIC PEPTIDES 6924
LIMULUS HEMOCYANINS 7644

EXCISION REPAIR
5-PRIME-3-PRIME EXONUCLEASES OF BACTERIOPHAGE T4 2613

EXONUCLEASE V
HEMOPHILUS EXO V ACTIVITY ON CROSS-LINKED DNA 6117
BINDING OF HEMOPHILUS EXO V TO DNA 6122
BINDING OF HEMOPHILUS EXO V TO DNA 6122

EXONUCLEASES
SEE ALSO DNASE
SEE ALSO NUCLEASES
SEE ALSO RNASE
DEGRADATION OF DNA CONTAINING 5-HYDROXYMETHYLCYTOSINE 1561
ENDONUCLEASE II OF E. COLI IS EXONUCLEASE III 1896
PURIFICATION AND PROPERTIES OF ANTIMUTATOR DNA POLYMERASE 2475
5-PRIME-3-PRIME EXONUCLEASES OF BACTERIOPHAGE T4 2613
MUTANT FORMS OF DNA POLYMERASE 4078
MUTANT FORMS OF DNA POLYMERASE 4685
HUMAN CORREXONUCLEASE A REPAIR ENZYME FROM PLACENTA 4579
C8128 ANTIMUTATOR T4 DNA POLYMERASE 5219
NUCLEOTIDE SELECTION BY T4 DNA POLYMERASES 5225

EYES
SEE ALSO LENS
SEE ALSO RETINOL
SEE ALSO RHODOPSIN
SEE ALSO RODS
SYNTHESIS OF BASEMENT MEMBRANE COLLAGEN BY ENDOTHELIUM 730
DELTA-CRYSTALLIN DNA REITERATION FREQUENCY 4294
SUBUNIT COMPOSITION OF EMBRYONIC CHICK LENS S-CRYSTALLIN 4416
GLYCOSAMINOGLYCAN BIOSYNTHESIS DURING CORNEAL DEVELOPMENT 6513

F

FACILITATED DIFFUSION
SEE ALSO TRANSPORT
FACTOR V
LANTHANIDE IONS AND METAL-DEPENDENT PROTHROMBIN ACTIVATION 3235
FACTOR VII
A NEW VITAMIN K-DEPENDENT PROTEIN 355
MECHANISM OF ACTIVATION OF BOVINE FACTOR VII 4797
FACTOR X
LANTHANIDE IONS AND METAL-DEPENDENT PROTHROMBIN ACTIVATION 3235
MECHANISM OF ACTIVATION OF BOVINE FACTOR VII 4797
SPECTRAL CHANGES IN FACTOR X ASSOCIATED WITH ACTIVATION 6867
ROLE OF GAMMA-CARBOXYGLUTAMIC ACID 6886
FACTOR X-A
PLASMA LIPOPROTEINS AND PROTHROMBIN ACTIVATION 5233
FACTOR XII
INHIBITION OF FACTOR XIIA BY ANTITHROMBIN-HEPARIN COFACTOR 6481
FACTOR XIII
ACTION OF FIBRIN-STABILIZING FACTOR IN CLOTTING PLASMA 1639
FAD
SEE ALSO FLAVOPROTEINS
DEAZAFAD-GLYOXALATE CARBOLIGASE 329
LOCATION OF SUBSTRATE SITE OF SUCCINATE DEHYDROGENASE 2369
FLAVIN-OXYGEN DERIVATIVES IN FLAVOENZYME HYDROXYLATION 2550
TRANSPORT OF RIBOFLAVIN IN YEAST 3221
FLAVIN COENZYME OF THIAMIN DEHYDROGENASE 5386
PROPERTIES OF 2-NITROPROPANE DIOXYGENASE 6994
ADRENODOXIN REDUCTASE ADRENODOXIN 1 1 COMPLEX+ PROPERTIES 7545
A COVALENT FLAVIN ADDUCT IN LIPOAMIDE DEHYDROGENASE 7726
FAMILIAL HYPERCHOLESTEROLEMIA
RETURN OF LDL RESPONSE IN ACID LIPASE-DEFICIENT FIBROBLASTS 3277
FAMILIAL HYPERLIPOPROTEINEMIA
SEE ALSO LIPOPROTEINS
FASTING
AMINO ACID RELEASE IN SKELETAL MUSCLE 844
EFFECT OF FASTING ON GLYCOLYTIC ENZYMES IN PANCREATIC ISLETS 1731
MULTIPLE KINETIC FORMS OF ADIPOSE TISSUE GLYCOGEN SYNTHASE 2316
AMINOLEVULINIC ACID SYNTHETASE IN THE HEART 4996
INSULIN EFFECTS ON HEART GLYCOGEN SYNTHASE PHOSPHATASE 6724
FAT CELLS
SEE ALSO FATTY ACIDS
INSULIN ACTION ON METHYLGLUCOSE EXCHANGE IN FAT CELLS 794
MONOACYLGLYCEROL-HYDROLYZING ENZYME OF RAT ADIPOSE TISSUE 813
SULFHYDRYL AGENTS AND FAT CELL HEXOSE TRANSPORT 1164
EFFECT OF INSULIN ON FATTY ACID CO A LIGASE 1488
PEPTIDES AND PHOSPHOPEPTIDES OF THE FAT CELL 1505
HORMONAL CONTROL OF PROTEIN PHOSPHORYLATION IN FAT CELLS 1511
MULTIPLE KINETIC FORMS OF ADIPOSE TISSUE GLYCOGEN SYNTHASE 2316
C-AMP ACTIVATION OF ACYL HYDROLASES IN ADIPOSE TISSUE 2882
CYTOCHALASIN B BINDING TO FAT CELL PLASMA MEMBRANES 2905
ADIPOCYTE BETA-ADRENERGIC RECEPTORS 3696
DIACYLGLYCEROL ACYLTRANSFERASE ACTIVITY OF FAT CELLS 4537
CALCIUM BINDING TO ADIPOCYTE PLASMA MEMBRANES 5345
FAT CELL GLYCEROL-P AND DIHYDROXYACETONE-P ACYLTRANSFERASES 5738
ACTIVATION AND INHIBITION OF ADENYLATE CYCLASE BY FLUORIDE 6285
PIG ADIPOSE TISSUE LIPASE 6267
LIPOGENIC DIFFERENTIATION IN CELL CULTURE 6462
CALCIUM TRANSPORT BY ADIPOCYTE ENDOPLASMIC RETICULUM 7191
ACYL-CO A DESATURASE OF ADIPOSE TISSUE AND LIVER 7468
FAT CELL CHOLERA TOXIN RECEPTOR 7610
FATTY ACID CO A LIGASE
EFFECT OF INSULIN ON FATTY ACID CO A LIGASE 1488
FATTY ACID SYNTHETASE
SYNTHESIS OF RAT LIVER FATTY ACID SYNTHETASE 720
FATTY ACID SYNTHETASE 3194
SUBUNIT STRUCTURE OF CHICKEN LIVER FATTY ACID SYNTHETASE 5352
LIPOGENIC DIFFERENTIATION IN CELL CULTURE 6462
FATTY ACIDS
SEE ALSO FAT CELLS
SEE ALSO LIPIDS
SEE ALSO PHOSPHOLIPIDS
SEE ALSO PROSTAGLANDIN
HEPATIC LIPID METABOLISM IN EXPERIMENTAL DIABETES 13
FATTY ACID INACTIVATION OF PHOSPHOFRUCTOKINASE 98
EFFECT OF HYDROGEN SHUTTLES ON FATTY ACID OXIDATION 277
REGULATION OF PYRUVATE DEHYDROGENASE 1364
EFFECT OF INSULIN ON FATTY ACID CO A LIGASE 1488
LIPID COMPOSITION OF OCHROMONAS DANICA FLAGELLAR MEMBRANE 1835
TRANSMEMBRANE ASYMMETRY OF PHOSPHATIDYLCHOLINE VESICLES 2110
BIOCHEMICAL AND ULTRASTRUCTURE CHANGES IN B12 DEFICIENCY 2147
ACYL SELECTIVITIES OF ACYLTRANSFERASES IN E. COLI 2487
MECHANISM OF THROMBIN-MEDIATED BURST IN O2 USE BY PLATELETS 2536
IONOPHORE A23187 ALTERS ERYTHROCYTE PHOSPHOLIPID METABOLISM 4162
ROLE OF PHOSPHOLIPIDS IN THE CALCIUM-DEPENDENT ATPASE 4224
ACP METABOLISM AND REGULATION IN LACTOBACILLUS 4706
CCL-4 MEDIATED LIPID PEROXIDATION IN ISOLATED LIVER CELLS 4973
MAMMALIAN MEMBRANES WITH ALTERED PHOSPHOLIPID COMPOSITION 5015
CALCIUM-INDUCED TRANSITION IN MITOCHONDRIA 5069
MECHANISM OF REGULATION OF OMEGA-OXIDATION OF FATTY ACIDS 5259
PURIFICATION OF PROSTAGLANDIN-FORMING CYCLOOXYGENASE 5575
STIMULATION OF GUANYLATE CYCLASE BY FREE FATTY ACIDS 5802
KINETICS OF LINOLEATE OXYGENATION BY SOYBEAN LIPOXYGENASE 6001
CORRECTION TO HIDALGO ET AL VOL. 251 (1976) P. 4224 6160
EFFECT OF LIPIDS ON RECONSTITUTION OF MEMBRANE VESICLES 6662
MITOCHONDRIAL CARNITINE ACYLCARNITINE TRANSLOCASE 6683
SPECTRAL AND EPR STUDIES ON ROLE OF IRON IN LIPOXYGENASE 7144
EFFECTS OF SPIN-LABELED STEARATES ON ADENYLATE CYCLASE 7431
ACYL-CO A DESATURASE OF ADIPOSE TISSUE AND LIVER 7468
GANGLIOSIDES OF HUMAN KIDNEY 7517
UNSATURATED FATTY ACID SYNTHESIS IN TETRAHYMENA 7588
FEEDBACK INHIBITION
SEE ALSO ENZYMES, REGULATION IN VITRO
FERRATE
INACTIVATION OF PHOSPHORYLASE B BY POTASSIUM FERRATE 1553
FERREDOXIN
SEE ALSO IRON-SULFUR PROTEINS
ORGANIZATION OF CHLOROPLAST MEMBRANES IN C. REINHARDI 247
SYNTHESIS OF C. ACIDI-URICI FERREDOXIN DERIVATIVES 1675
MIDPOINT REDUCTION POTENTIAL OF C. ACIDI-URICI FERREDOXIN 1683
THERMODYNAMICS + EPR CHARACTERISTICS OF FE-S CENTERS OF SDH 2094
P.AEROGENES FERREDOXIN STRUCTURE. REFINEMENT AT 2 ANGSTROMS 3861
ISOLATION OF CHICK RENAL MITOCHONDRIAL FERREDOXIN 3933
FERRIC
SEE ALSO IRON
FERRIHEMOGLOBIN
SEE ALSO HEMOGLOBIN
SEE ALSO METHEMOGLOBIN
SEE ALSO MYOGLOBIN
FERRITIN
CHEMICALLY PREPARED AND TISSUE-ENDOGENOUS APOFERRITINS 3856
PROTON INTERACTIONS OF FERRITIN AND APOFERRITIN 6963
FERROCYTOCHROME C
SEE ALSO CYTOCHROME
FERROUS
SEE ALSO HEMOGLOBIN
SEE ALSO IRON
FIBRIN-STABILIZING FACTOR
ACTION OF FIBRIN-STABILIZING FACTOR IN CLOTTING PLASMA 1639
FIBRINOGEN
CHARACTERIZATION OF FIBRINOGEN AND FIBRIN FRAGMENT E SPECIES 1591
EPIDERMAL TRANSGLUTAMINASE 7281
FIBRINOLYSIS
HUMAN PLASMINOGEN-STREPTOKINASE ACTIVATOR 6495
ACTIVATION OF DOG PLASMINOGEN BY STREPTOKINASE 6624
FIBROBLAST CELLS
GROUP TRANSLOCATION OF INOSINE RIBOSE MOIETY BY SV-3T3 CELLS 344
L-3,4-DEHYDROPROLINE AND COLLAGEN METABOLISM 583
PROSTAGLANDIN BIOSYNTHESIS AND VASOACTIVE SUBSTANCES 776
UPTAKE OF NUCLEOSIDE RADIOACTIVITY BY L-CELL PLASMA MEMBRANE 1175
ENZYMES INVOLVED IN VESICLE TRANSPORT 1181
FUNCTION OF PROCOLLAGEN COOH-TERMINAL EXTENSION 2070
EFFECT OF PHOSPHOLIPASES ON STEROID BINDING 2279
CYCLIC GMP METABOLISM IN NORMAL AND TRANSFORMED FIBROBLASTS 2344
INTERACTION OF SWINE LIPOPROTEINS WITH THE LDL RECEPTOR 2395
SYNTHESIS AND RELEASE OF PROCOLLAGENASE BY FIBROBLASTS 3162
RETURN OF LDL RESPONSE IN ACID LIPASE-DEFICIENT FIBROBLASTS 3277
PROTEIN DEGRADATION IN HUMAN FIBROBLASTS 3521
CORRECTION TO BERSOT ET AL VOL. 251 (1976) P. 2395 3838
CYSTINE METABOLISM IN HUMAN FIBROBLASTS 4287
ROLE OF GANGLIOSIDE STRUCTURE IN CHOLERAGEN RESPONSE 4493
A RESPIRATION-DEFICIENT CHINESE HAMSTER CELL LINE 4588
MANNOSYL GLYCOPEPTIDES AND CELL GROWTH STATUS 4673
HYPOXANTHINE TPANSPORT BY CHINESE HAMSTER FIBROBLASTS 4823
MAMMALIAN MEMBRANES WITH ALTERED PHOSPHOLIPID COMPOSITION 5015
ACYL DIHYDROXYACETONE PHOSPHATE PATHWAY IN BHK FIBROBLASTS 5149
BINDING OF INTERFERONS TO IMMOBILIZED AROMATIC AMINO ACIDS 5381
COLLAGEN SYNTHESIS BY GINGIVA FIBROBLASTS 5464
STIMULATION OF GUANYLATE CYCLASE BY FREE FATTY ACIDS 5802
STIMULATION OF PROSTAGLANDIN SYNTHESIS 5814
5-ALPHA-REDUCTASE IN FIBROBLASTS 5895
DNR OF ANIMAL CELLS 6147
INSULIN BINDING TO CHICK EMBRYO FIBROBLASTS 6445
LIPOGENIC DIFFERENTIATION IN CELL CULTURE 6462
CHARACTERISTIC TEMPERATURES OF LM CELL MEMBRANES 6739
PHYSICAL PROPERTIES OF MEMBRANES WITH ALTERED PHOSPHOLIPIDS 6747
TRIPLE HELIX WAY FORM BETWEEN POLYSOME-BOUND COLLAGEN CHAINS 7137
PROTEIN KINASE IN THE OUTER MEMBRANE OF 3T3 AND SV3T3 CELLS 7899
FIBROBLAST GROWTH FACTOR
CYCLIC GMP METABOLISM IN NORMAL AND TRANSFORMED FIBROBLASTS 2344
FICAPRENOL
PHOSPHOLIPID ACTIVATION OF A PURIFIED MEMBRANE ENZYME 1264
LIPID ACTIVATION OF A MEMBRANE ENZYME. BIOPHYSICAL STUDIES 1278
DETERGENT ACTIVATION OF A PURIFIED MEMBRANE ENZYME 1277
FILAMIN
PURIFICATON AND PROPERTIES OF FILAMIN 6562
FILIPIN
SEE ALSO MEMBRANES
FISH
BIOCHEMISTRY OF TASTE. STIMULUS BINDING TO RECEPTORS 88
ROOT EFFECT HEMOGLOBIN OF A MARINE FISH 1871
RAMAN SPECTRA OF AN ANTIFREEZE GLYCOPROTEIN 2298
FLAGELLAE
NUCLEOTIDE METABOLIZING ENZYMES IN CHLAMYDOMONAS FLAGELLA 182
OCHROMONAS FLAGELLAR MEMBRANE ISOLATION AND CHARACTERIZATION 1828
LIPID COMPOSITION OF OCHROMONAS DANICA FLAGELLAR MEMBRANE 1835
PHOSPHORYLATION AXONEMAL PROTEINS IN CHLAMYDOMONAS 2161
DYNEIN 2 ATPASE FROM SEA URCHIN SPERM FLAGELLA 5793
FLAGELLIN
PRIMARY STRUCTURE OF BACILLUS SUBTILIS FLAGELLIN. I. 695
PRIMARY STRUCTURE OF BACILLUS SUBTILIS FLAGELLIN. II. 701
PRIMARY STRUCTURE OF BACILLUS SUBTILIS FLAGELLIN. III. 705
FLASH PHOTOLYSIS
SUBUNIT DISSOCIATION IN FISH HEMOGLOBINS 7632
FLAVIN ADENINE DINUCLEOTIDE
SEE ALSO FAD
FLAVIN PEROXIDE
P-OH-BENZOATE HYDROXYLASE MECHANISM WITH P-MERCAPTOBENZOATE 7367
FLAVINS
CELL-FREE HYDROGENATION OF CIS-9, TRANS-11-OCTADECADIENOATE 2241
FLAVOBACTERIUM HEPARINUM
CHONDROITINASE C 1154
FLAVOPROTEIN REDUCTASE
15-BETA-HYDROXYLASE SYSTEM IN BACILLUS MEGATERIUM 2831
FLAVOPROTEINS
SEE ALSO FAD
SEE ALSO SPECIFIC ENZYMES
A MIPIP-TYPE IRON-SULFUR CENTER IN SUCCINATE DEHYDROGENASE 2105
FLAVIN-OXYGEN DERIVATIVES IN FLAVOENZYME HYDROXYLATION 2553
GLUTAMINE-DEPENDENT GLUTAMATE SYNTHASE 3294
APOGLUTAMATE SYNTHASE AND GLUTAMATE DEHYDROGENASE 3380
LIPOAMIDE DEHYDROGENASE ACTIVE SITE CYSTEINE REACTIVITIES 3553
ASPARAGUSATE DEHYDROGENASES AND LIPOYL DEHYDROGENASE 3637
OXIDATION-REDUCTION POTENTIALS OF LIPOAMIDE DEHYDROGENASE 3956
CYTOCHROME P 450 REDUCTION 4018
ADRENODOXIN REDUCTASE INTERACTION WITH PYRIDINE NUCLEOTIDES 4299
NUCLEOPHILIC REACTIONS OF DEAZAFLAVINS 4872
INTACT OLD YELLOW ENZYME VIA SINGLE CHROMATOGRAPHIC STEP 5321
CHARGE-TRANSFER COMPLEXES OF OLD YELLOW ENZYME 5327
PROPERTIES OF 2-NITROPROPANE DIOXYGENASE 6994
P-OH-BENZOATE HYDROXYLASE MECHANISM WITH P-MERCAPTOBENZOATE 7367
ADRENODOXIN REDUCTASE ADRENODOXIN 1 1 COMPLEX+ PROPERTIES 7545
A COVALENT FLAVIN ADDUCT IN LIPOAMIDE DEHYDROGENASE 7726
FLIES
SEE ALSO INSECTS
FLUORESCEIN ISOTHIOCYANATE
SUBUNIT INTERACTIONS OF BLACK-EYED PEA PROTEIN INHIBITORS 747
FLUORESCENCE
SUBUNIT INTERACTIONS OF BLACK-EYED PEA PROTEIN INHIBITORS 747
ENERGY TRANSFER STUDIES ON PROTEASE INHIBITOR COMPLEXES 769
KINETICS OF INDUCER BINDING TO LAC REPRESSOR PROTEIN 1171
LIPID ACTIVATION OF A MEMBRANE ENZYME. BIOPHYSICAL STUDIES 1278
TERNARY COMPLEXES OF THYMIDYLATE SYNTHETASE 1363
LAC REPRESSOR TRYPTOPHANS 3774
MOLAR RATIO OF APO-GLN-I TO APO-GLN-II OF HDL 4985
FLUORESCENT IMMUNOCHEMICAL METHOD EMPLOYING ENERGY TRANSFER 4172
CHROMAFFIN GRANULE MEMBRANE POTENTIAL 4544
REACTIVITY OF PHOSPHOPYRIDOXAL IN CYSTATHIONASE 5267
SUBUNIT STRUCTURE OF CHICKEN LIVER FATTY ACID SYNTHETASE 5352
A CALCIUM-DEPENDENT PROTHROMBIN TRANSITION 5648
INTERACTIONS OF ACTIN AND NUCLEOTIDE BINDING SITES ON MYOSIN 6170
CHARACTERISTIC TEMPERATURES OF LM CELL MEMBRANES 6739

PHYSICAL PROPERTIES OF MEMBRANES WITH ALTERED PHOSPHOLIPIDS 6747
ROLE OF GAMMA-CARBOXYGLUTAMIC ACID 6886
MAPPING OF THE GENE 32-PROTEIN-NUCLEIC ACID BINDING SITE 7229
PARAMETERS FOR GENE 32-PROTEIN BINDING TO NUCLEIC ACIDS 7240
AMINOACYL-TRNA SYNTHETASES THE RATE-DETERMINING STEP 7717
KINETICS OF PYRENE EXCHANGE BETWEEN LIPOPROTEINS 7952
FLUORESCENT PROBES
A NONELECTROGENIC H+ PUMP IN HOG GASTRIC MEMBRANE 7690
FLUORESCENT-LABELING
ACTION OF FIBRIN-STABILIZING FACTOR IN CLOTTING PLASMA 1639
CALCIUM BINDING TO TROPONIN C 7551
FLUORIDE
FLUORIDE AND INITIATION COMPLEXES OF PROTEIN SYNTHESIS 292
STABILITY AND ACTIVITY OF ISOPROPYLMALATE ISOMERASE 3545
HORMONE-SENSITIVE RESEALED GHOSTS 4930
IRON SUPEROXIDE DISMUTASE FROM E. COLI 5472
TWO SOLUBLE FORMS OF ADENYLATE CYCLASE 5831
ACTIVATION AND INHIBITION OF ADENYLATE CYCLASE BY FLUORIDE 6205
FLUORINE-19
MAGNETIC RESONANCE PROBE (19-F) IN ASPARTATE TRANSAMINASE 1853
BINDING OF CARBAMYL PHOSPHATE TO ASPARTATE TRANSCARBAMYLASE 5966
FLUOROADENINE
SPECIFICITY OF DEOXYCYTIDINE KINASE 4655
FLUOROADENOSINE 3,5-MONOPHOSPHATE
2-FLUOROADENOSINE 3,5-MONOPHOSPHATE. CELLULAR FORMATION 6757
FLUORODEOXYURIDINE
MITOCHONDRIAL DNA SYNTHESIS IN MOUSE L-CELLS 2938
FLUORODEOXYURIDYLATE
TERNARY COMPLEXES OF THYMIDYLATE SYNTHETASE 1303
FLUOROGRAPHY
HUMAN ERYTHROCYTE GLYCOPROTEINS 510
FLUOROPHENYLALANINE
SYNTHESIS OF C. ACIDI-URICI FERREDOXIN DERIVATIVES 1675
MIDPOINT REDUCTION POTENTIAL OF C. ACIDI-URICI FERREDOXIN 1683
PROTEIN DEGRADATION IN HUMAN FIBROBLASTS 3521
FOLATE
SEE ALSO DIHYDROFOLATE REDUCTASE
SEE ALSO TETRAHYDROFOLATE
ANALYSIS OF FOLATE DERIVATIVES IN MOUSE L1210 CELLS 3569
PROPERTIES OF KETOPANTOATE HYDROXYMETHYLTRANSFERASE 3786
CHARACTERISTICS OF GTP CYCLOHYDROLASE I 5087
A MAMMALIAN PROTEIN WITH MULTIPLE CATALYTIC ACTIVITIES 5104
FOLATE-DEPENDENT RIBOTHYMIDINE BIOSYNTHESIS 7649
FOLATE REDUCTASE
SYNTHESIS AND DEGRADATION OF FOLATE REDUCTASE 3063
REGULATION OF FOLATE REDUCTASE SYNTHESIS IN SARCOMA 180 CELL 6987
FOLIC ACID
SEE ALSO FOLATE
FOLLICLE STIMULATING HORMONE
AMINO ACID SEQUENCE OF HUMAN FSH-BETA SUBUNIT 993
FOLLITROPIN RECEPTOR INTERACTION 3326
FOLLITROPIN
FOLLITROPIN RECEPTOR INTERACTION 3326
FORMALDEHYDE
RAT LIVER MITOCHONDRIAL ALDEHYDE DEHYDROGENASE 1571
PURIFICATION OF KETOPANTOATE HYDROXYMETHYLTRANSFERASE 3780
FORMYL PHOSPHATE
ON THE MECHANISM OF FORMYLTETRAHYDROFOLATE SYNTHETASE 4159
FORMYLATION
PROPERTIES OF FERRIC MYOGLOBINS CONTAINING FORMYLHEMES 2684
FORMYLHEME
SEE ALSO HEME
FORMYLMETHIONYL-TRNA
SPECIFIC BINDING OF IF-2 (E. COLI) TO FMET-TRNA 137
INTERACTION OF BACTERIAL IF-2 WITH INITIATOR TRNA 3338
FORMYLMYOGLOBIN
SEE ALSO MYOGLOBIN
REACTIONS OF RECONSTITUTED MYOGLOBINS WITH O2 AND CO 1418
FORMYLTETRAHYDROFOLATE SYNTHETASE
ON THE MECHANISM OF FORMYLTETRAHYDROFOLATE SYNTHETASE 4159
A MAMMALIAN PROTEIN WITH MULTIPLE CATALYTIC ACTIVITIES 5104
FOURIER METHODS
SEE ALSO NUCLEAR MAGNETIC RESONANCE
FRACTIONATION, CELL
NUCLEAR LOCATION OF MAMMALIAN DNA POLYMERASE ACTIVITIES 7893
FREE ENERGY
ENERGETICS OF PROTEASE-BLACK-EYED PEA INHIBITOR INTERACTIONS 763
FRIEND LEUKEMIA CELLS
SEE ALSO LEUKEMIA CELLS
FROG VIRUS 3
PURIFICATION OF A VIRION PROTEIN KINASE 3176
VIRUS-SPECIFIED PROTEIN KINASE 3185
FROGS
SEE ALSO SPECIES NAME
SEE ALSO TADPOLES
SOLUBLE BETA-ADRENERGIC RECEPTORS 2374
NUCLEOTIDES REGULATE BETA-ADRENERGIC RECEPTORS 4686
ALLOSTERIC REGULATION OF HEXOKINASE C FROM AMPHIBIAN LIVER 5035
FRUCTOSE
REGULATION OF CARBOHYDRATE METABOLISM IN BACTERIA 883
CARBOHYDRATE UPTAKE IN GRAM POSITIVE BACTERIA 893
FRUCTOSE BISPHOSPHATASE
INHIBITION OF FRUCTOSE BISPHOSPHATASE BY SUBSTRATE ANALOGS 2963
SIZE-DEPENDENT EFFECTS OF MONOVALENT CATIONS 4315
FRUCTOSE BISPHOSPHATE
6-PHOSPHOFRUCTOKINASE (PYROPHOSPHATE) 2958
FRUCTOSE 6-SULFATE AS A SUBSTRATE OF PHOSPHOFRUCTOKINASE 3664
LIPID ACCUMULATION IN YEAST DUE TO INOSITOL DEFICIENCY 5759
CONTROL OF PHOSPHOFRUCTOKINASE FROM SKELETAL MUSCLE 7322
ACTIVATOR-INDUCED OLIGOMERIZATION OF ADP-GLUCOSE SYNTHASE 7886
FRUCTOSE BISPHOSPHATE ALDOLASE
ESSENTIAL LYSYL RESIDUE IN ALDOLASE 3057
FRUCTOSE DIPHOSPHATE
SEE ALSO FRUCTOSE BISPHOSPHATE
FRUCTOSE 1-PHOSPHATE-6-SULFATE
FRUCTOSE 6-SULFATE AS A SUBSTRATE OF PHOSPHOFRUCTOKINASE 3664
FRUCTOSE 1,6-BISPHOSPHATE
PHOSPHOLIPID INHIBITION OF GLYCOLYSIS IN BRAIN 7149
FRUCTOSE 6-PHOSPHATE
THE FRUCTOSE 6-PHOSPHATE SITE OF PHOSPHOFRUCTOKINASE 2983
OXIDATION OF TRANSALDOLASE INTERMEDIATE 4220
LIGAND INDUCED STRUCTURAL CHANGES IN PHOSPHOFRUCTOKINASE 5637
PH INDUCED REGULATORY KINETICS OF PHOSPHOFRUCTOKINASE 5644
PHOSPHOLIPID INHIBITION OF GLYCOLYSIS IN BRAIN 7149
FRUCTOSE 6-SULFATE
FRUCTOSE 6-SULFATE AS A SUBSTRATE OF PHOSPHOFRUCTOKINASE 3664
FSH
SEE ALSO FOLLICLE STIMULATING HORMONE
FUCOSE
TURNOVER OF THE PLASMA MEMBRANE PROTEINS OF HTC CELLS 872
ALPHA-FUCOPYRANOSYL-CERAMIDE 2385
FUCOSIDASE
STRUCTURE OF THE ACCUMULATING OLIGOSACCHARIDE IN FUCOSIDOSIS 5852
FUMARASE
ALKYLATION OF METHIONINE IN FUMARASE BY BENZYL BROMIDE 5711
FUMARATE
REGULATORY PROPERTIES OF ASCARIS NAD-MALIC ENZYME 3599
FUNGI
SEE ALSO NEUROSPORA CRASSA
SEE ALSO PENICILLIUM
FUSIDIC ACID
SEE ALSO ELONGATION FACTORS
SEE ALSO PROTEIN, SYNTHESIS
ELONGATION FACTOR G BINDING TO THE RIBOSOME 1795

G

GALACTANASE
STRUCTURE OF PLANT CELL WALLS 5984
GALACTOSAMINE
SEE ALSO GLYCOPROTEINS
GALACTOSAMINE, N-ACETYL
BIOSYNTHESIS OF CHONDROITIN SULFATE 3942
SUBUNIT STRUCTURE OF WISTARIA FLORIBUNDA LECTIN 5686
GALACTOSE
SEE ALSO GLYCOPROTEINS
ROLES OF INDIVIDUAL MGL GENE PRODUCTS IN ACTIVE TRANSPORT 3112
CHONDROITIN SULFATE GLYCOSYLTRANSFERASES IN CHONDROCYTES 3346
FORMATION AND PROPERTIES OF RETINYLPHOSPHATE GALACTOSE 4986
CALF BETA-GALACTOSIDE BINDING LECTINS 7581
RICIN-RESISTANT MOUSE L CELL LINES 7761
GALACTOSE OXIDASE
TOPOGRAPHY OF GLYCOPROTEINS IN THE INTACT MYELIN SHEATH 153
HUMAN ERYTHROCYTE GLYCOPROTEINS 510
GALACTOSE-1-PHOSPHATE URIDYLYL TRANSFERASE
HUMAN GALACTOSE-1-PHOSPHATE URIDYLYLTRANSFERASE 1057
GALACTOSEMIA
HUMAN GALACTOSE-1-PHOSPHATE URIDYLYLTRANSFERASE 1057
GALACTOSIDASE
POST-TRANSCRIPTIONAL CONTROL OF BETA-GALACTOSIDASE SYNTHESIS 2854
ENDO-BETA-GALACTOSIDASE ACTING ON BLOOD GROUP SUBSTANCES 3603
ENDO-BETA-GALACTOSIDASE HYDROLYSIS OF COMPLEX CARBOHYDRATES 6218
GLYCOSAMINOGLYCAN BIOSYNTHESIS DURING CORNEAL DEVELOPMENT 6513
CALF BETA-GALACTOSIDE BINDING LECTINS 7581
GALACTOSIDES
CARBOHYDRATE UPTAKE IN GRAM POSITIVE BACTERIA 893
THIODIGALACTOSIDE BINDING TO ESCHERICHIA COLI M PROTEIN 6735
GALACTOSYLTRANSFERASE
KINETIC MECHANISM OF LACTOSE SYNTHASE 3003
METAL ION ACTIVATION OF GALACTOSYL TRANSFERASE 3645
PROTEIN BINDING TO GALACTOSYLTRANSFERASE 3653
GOLGI GALACTOSYLTRANSFERASE OF CONCANAVALIN A 5860
BIOSYNTHESIS OF CHONDROITIN SULFATE 285
GANGLIA
SOLUBILIZED NGF RECEPTORS 5680
GANGLIOSIDES
SEE ALSO GLYCOSPHINGOLIPIDS
SEE ALSO SPHINGOLIPIDS
BIOSYNTHESIS OF SIALOSYLGALACTOSYLCERAMIDE 198
ACTIVATOR STIMULATING THE ENZYMIC HYDROLYSIS OF GLYCOLIPIDS 1159
ROLE OF GANGLIOSIDE STRUCTURE IN CHOLERAGEN RESPONSE 4490
STRUCTURING OF GANGLIOSIDE AGGREGATES 7083
GANGLIOSIDES OF HUMAN KIDNEY 7517
FAT CELL CHOLERA TOXIN RECEPTOR 7610
GANGLIOSIDE BIOSYNTHESIS IN N841A MOUSE NEUROBLASTOMA CELLS 7626
GASTROINTESTINAL HORMONES
CYCLIC AMP IN PANCREATIC ACINAR CELLS 4635
GDP
EFFECT OF EF-TU INHIBITORS ON Q-BETA REPLICASE RENATURATION 2749
REGULATION OF NEUROBLASTOMA ADENYLATE CYCLASE 3399
BINDING OF SUBSTRATES TO RIBONUCLEOTIDE REDUCTASE 3616
BINDING OF SUBSTRATES TO RIBONUCLEOTIDE REDUCTASE 3616
GDP-MANNOSE
UTILIZATION OF EXOGENOUS GDP-MANNOSE BY OVIDUCT CELLS 2511
GDP(NH)P
SEE ALSO GMP-P(NH)P
GEL CHROMATOGRAPHY
SEE ALSO CHROMOTOGRAPHY, GEL
GELATION
AGGREGATION OF DEOXYHEMOGLOBINS AT LOW CONCENTRATIONS 7657
GENE EXPRESSION
SEE ALSO ENZYMES, REGULATION IN VIVO
SEE ALSO PROTEIN, REGULATION IN VIVO
SEE ALSO RNA, REGULATION IN VIVO
EFFECTS OF ESTROGEN ON GENE EXPRESSION ROLE OF NONHISTONE 4713
GENE 32
EFFECTS OF GENE 32-PROTEIN BINDING ON DNA CONFORMATION 7215
MAPPING OF THE GENE 32-PROTEIN-NUCLEIC ACID BINDING SITE 7229
PARAMETERS FOR GENE 32-PROTEIN BINDING TO NUCLEIC ACIDS 7240
REGULATION OF GENE 32 EXPRESSION DURING T4 INFECTION 7251
TRANSLATIONAL, AUTOGENOUS CONTROL OF GENE 32 EXPRESSION 7263
GENE 32-PROTEIN
SEE ALSO UNWINDING PROTEIN
GENE, OVALBUMIN
SYNTHESIS OF THE OVALBUMIN GENE 7356
GENES
SEE ALSO DNA
SYNTHESIS OF A TYROSINE SUPPRESSOR TRNA PRECURSOR GENE 565
LAC REPRESSOR QUATERNARY STRUCTURE 3359
PROMOTER SEQUENCE OF TYROSINE TRNA GENE 4481
NUCLEOTIDE SEQUENCES AT THE TWO ENDS OF TRNA-TYR GENES 5124
GENETIC CODE
BINDING OF URACIL DERIVATIVES TO HYDROPHOBIC PEPTIDES 6924
GENETIC VARIANTS
SEE ALSO ANTITRYPSIN
SEE ALSO HEMOGLOBIN
SEE ALSO SICKLE CELLS
HUMAN ERYTHROCYTE PYRIMIDINE NUCLEOSIDE MONOPHOSPHATE KINASE 4179
GENETICS
SEE ALSO DNA
SEE ALSO HEMOGLOBIN
SEE ALSO MUTATIONS
GENETICS, ANIMAL
DE NOVO PROTEIN SYNTHESIS OF CYTOCHROME P 450 1817
GENETICS OF METYRAPONE AND ETHYL ISOCYANIDE BINDING TO P 450 5397
STRUCTURE OF THE ACCUMULATING OLIGOSACCHARIDE IN FUCOSIDOSIS 5852
GENITAL SKIN CELLS
5-ALPHA-REDUCTASE IN FIBROBLASTS 5895
GERMINATION
SPECIFIC SPORE PROTEASE FROM B. MEGATERIUM 7853
GHOSTS, RED BLOOD CELLS
HORMONE-SENSITIVE RESEALED GHOSTS 4930

GINGIVA
COLLAGEN SYNTHESIS BY GINGIVA FIBROBLASTS 5464
GIZZARD
PURIFICATON AND PROPERTIES OF FILAMIN 6562
GLIAL CELLS
BUFFER AND PH EFFECTS ON BRAIN-SPECIFIC PROTEIN ACCUMULATION 5112
GLIOMA CELLS
BETA-ADRENERGIC RECEPTORS OF CULTURED CELLS 1221
C6 CELL ECTO-5-PRIME-NUCLEOTIDASE 3908
REGULATION OF ADENYLATE CYCLASE BY ADENOSINE 4239
REGULATION OF ADENYLATE CYCLASE BY A CALCIUM-BINDING PROTEIN 4744
GLOBIN
SEE ALSO HEMOGLOBIN
SEE ALSO PROTEIN, SYNTHESIS IN VITRO (ANIMAL)
SEE ALSO RETICULOCYTES
SHORTENING OF POLY(A) REGION OF MOUSE GLOBIN MESSENGER RNA 5512
SPECIFICITY IN THE INITIATION OF GLOBIN MRNA TRANSLATION 5718
GLOBOSIDES
SEE ALSO GLYCOSPHINGOLIPIDS
SEE ALSO SPHINGOLIPIDS
GLOBULINS
SEE ALSO IMMUNOGLOBULINS
CONTROL OF ALPHA 2U GLOBULIN MRNA BY SEX HORMONES 3594
GLOMERULUS
SEE ALSO KIDNEY
GLUCAGON
SEE ALSO ADENYLATE CYCLASE
HORMONAL CONTROL OF GLYCOGEN METABOLISM IN FETAL HEPATOCYTES 1431
PHOSPHORYLATION OF RIBOSOMAL PROTEIN 1580
C-AMP ACTIVATION OF ACYL HYDROLASES IN ADIPOSE TISSUE 2882
CYCLIC GMP, CA2-PLUS AND GLYCOGENOLYSIS BY LIVER CELLS 2987
MALIC ENZYME SYNTHESIS IN CULTURE 3027
REGULATION OF HEPATIC PYRUVATE KINASE 3756
ALPHA-ADRENERGIC ACTIVATION OF HEPATIC GLUCOSE OUTPUT I. 5200
ALPHA-ADRENERGIC ACTION IN LIVER. II 5209
CARNITINE AND NEONATAL KETOSIS 6007
GLUCOSE METABOLISM AND N-CELL FUNCTION IN VITRO 6053
GLUCOSE AND LACTATE FORMATION FROM PYRUVATE 6189
GLUCAGON EFFECT ON HEPATIC PROTEIN SYNTHESIS AND DEGRADATION 7785
HORMONAL CONTROL OF DIHYDROXYACETONE AND GLYCEROL METABOLISM 7841
GLUCOCORTICOID RECEPTORS
SEE ALSO RECEPTORS, HORMONAL
GLUCOCORTICOIDS
SEE ALSO CORTICOSTEROIDS
GLUCOKINASE
SEE ALSO HEXOKINASE
EFFECT OF FASTING ON GLYCOLYTIC ENZYMES IN PANCREATIC ISLETS 1731
GLUCONEOGENESIS
P-ENOLPYRUVATE CARBOXYKINASE INHIBITED BY MERCAPTOPICOLINATE 37
ALPHA-ADRENERGIC ACTIVATION OF HEPATIC GLUCOSE OUTPUT I. 5200
ALPHA-ADRENERGIC ACTION IN LIVER. II 5209
GLUCOSE AND LACTATE FORMATION FROM PYRUVATE 6189
HORMONAL CONTROL OF DIHYDROXYACETONE AND GLYCEROL METABOLISM 7841
GLUCOSAMINE
SEE ALSO GLYCOPROTEINS
GLUCOSAMINE 6-PHOSPHATE
A KINETIC STUDY OF GLUCOSE 6-PHOSPHATE DEHYDROGENASE 2258
GLUCOSAMINE, N-ACETYL
N-ACETYLGLUCOSAMINYLTRANSFERASE IN PEPTIDOGLYCAN SYNTHESIS 6154
GLUCOSE
SEE ALSO HEXOKINASE
SEE ALSO INSULIN
SEE ALSO POLYSACCHARIDES
SEE ALSO TRANSPORT, SUGAR
INSULIN ACTION ON METHYLGLUCOSE EXCHANGE IN FAT CELLS 794
REGULATION OF CARBOHYDRATE METABOLISM IN BACTERIA 883
CARBOHYDRATE UPTAKE IN GRAM POSITIVE BACTERIA 893
CORRECTION TO SAIER ET AL VOL. 250 (1975) P. 7593 1531
ERYTHROCYTE MEMBRANE D-GLUCOSE TRANSPORT PROTEIN 1582
GLYCOGEN METABOLISM IN ASTROCYTOMA AND NEUROBLASTOMA CELLS 2015
REGULATION OF ADENYLATE CYCLASE BY PTS ENZYMES II 2462
EFFECT OF PYRIDINE DERIVATIVES ON GLUCOSE TRANSPORT 5141
ACYL DIHYDROXYACETONE PHOSPHATE PATHWAY IN BHK FIBROBLASTS 5149
ALPHA-ADRENERGIC ACTIVATION OF HEPATIC GLUCOSE OUTPUT I. 5200
ALPHA-ADRENERGIC ACTION IN LIVER. II 5209
INSULIN RELEASE METABOLISM OF GLUCOSE ANOMERS IN ISLETS 5936
GLUCOSE EFFECT ON KINETICS OF MUCOPOLYSACCHARIDE SYNTHESIS 6210
FORMATION OF LIPID-SACCHARIDE INTERMEDIATE BY THYROID SLICES 6408
STRUCTURE OF A THYROID OLIGOSACCHARIDE-LIPID INTERMEDIATE 6409
COMPARISON OF OLIGOSACCHARIDE-LIPIDS FROM SEVERAL TISSUES 6420
GLUCOCORTICOID ACTION ON ATP PRODUCTION IN THYMIC LYMPHOCYTE 7295
GLUCOSE BISPHOSPHATE
SEE ALSO GLUCOSE-1,6-BISPHOSPHATE SYNTHASE
INHIBITION OF FRUCTOSE BISPHOSPHATASE BY SUBSTRATE ANALOGS 2963
GLUCOSE DIPHOSPHATE
SEE ALSO GLUCOSE-1,6-BISPHOSPHATE SYNTHASE
SEE ALSO GLUCOSE BISPHOSPHATE
GLUCOSE OXIDASE
NUCLEOPHILIC REACTIONS OF DEAZAFLAVINS 4872
GLUCOSE PHOSPHORYLATION
ALLOSTERIC REGULATION OF HEXOKINASE C FROM AMPHIBIAN LIVER 5035
GLUCOSE TRANSPORT
SEE ALSO TRANSPORT, GLUCOSE
GLUCOSE UTILIZATION
GLUCOSE UTILIZATION AND NAD/NADH POTENTIALS 4127
GLUCOSE 6-PHOSPHATE
RABBIT SKELETAL MUSCLE GLYCOGEN SYNTHASE I 1913
ACTION OF PHOSPHORYLASE PHOSPHATASE ON GLYCOGEN SYNTHASE B 2363
ALLOSTERIC REGULATION OF HEXOKINASE C FROM AMPHIBIAN LIVER 5035
GLUCOSE-1-PHOSPHATE ADENYLYLTRANSFERASE
E. COLI ADP-GLUCOSE PYROPHOSPHORYLASE 7888
GLUCOSE-1,6-BISPHOSPHATE SYNTHASE
P-ENZYME INTERMEDIATE IN THE GLUCOSE-1,6-P2 SYNTHASE 5431
GLUCOSE-6-PHOSPHATASE
INHIBITION OF GLUCOSE-6-PHOSPHATASE BY PYRIDOXAL PHOSPHATE 1035
MEMBRANE PERMEABILITY AND MICROSOMAL GLUCOSE-6-PHOSPHATASE 4901
GLUCOSE 6-PHOSPHATE TRANSPORT AND GLUCOSE-6-PHOSPHATASE 6784
GLUCOSE-6-PHOSPHATE DEHYDROGENASE
GLUCOSE 6-PHOSPHATE DEHYDROGENASE PURIFICATION 2255
A KINETIC STUDY OF GLUCOSE 6-PHOSPHATE DEHYDROGENASE 2258
KINETICS OF GLUCOSE-6-PHOSPHATE DEHYDROGENASE VARIANTS 2993
REGULATION OF 6-PHOSPHOGLUCONATE DEHYDROGENASE SYNTHESIS 3539
INSULIN RELEASE METABOLISM OF GLUCOSE ANOMERS IN ISLETS 5936
GLUCOSE-6-PHOSPHATE ISOMERASE
FRUCTOSE 6-SULFATE AS A SUBSTRATE OF PHOSPHOFRUCTOKINASE 3664
GLUCOSIDASES
MUTATIONS AFFECTING BETA-GLUCOSIDASE IN DICTYOSTELIUM 2688
GLUCOSTEROIDS
SEE ALSO CORTICOSTEROIDS
GLUCOSYLATION
DEGRADATION OF DNA CONTAINING 5-HYDROXYMETHYLCYTOSINE 1561
GLUCURONATE
BIOSYNTHESIS OF CHONDROITIN SULFATE 3942
GLUCURONIDASE
EGASYN, A PROTEIN STABILIZING GLUCURONIDASE MEMBRANE BINDING 7753
GLUTAMATE
REGULATION OF ESCHERICHIA COLI GLUTAMINASE B. II 3457
GLUTAMATE (IN PROTEINS)
SEE ALSO PYROGLUTAMINASE
GLUTAMATE DECARBOXYLASE
BROMOPYRUVATE INACTIVATION OF GLUTAMATE DECARBOXYLASE 229
13C NMR SPECTROSCOPY 2248
GLUTAMATE DEHYDROGENASE
AMMONIA PRODUCTION IN BRAIN 485
DEHYDROGENASE INHIBITION BY PALMITOYL COENZYME A 1486
HYDROGEN EXCHANGE IN REDUCED PYRIDINE NUCLEOTIDES 1765
APOGLUTAMATE SYNTHASE AND GLUTAMATE DEHYDROGENASE 3380
FUNCTIONAL ARGININE RESIDUE OF GLUTAMATE DEHYDROGENASE 5835
GLUTAMATE SYNTHASE
GLUTAMINE-DEPENDENT GLUTAMATE SYNTHASE 3294
APOGLUTAMATE SYNTHASE AND GLUTAMATE DEHYDROGENASE 3380
METABOLISM OF RADIOACTIVE DINITROGEN BY A CYANOBACTERIUM 5627
GLUTAMATE-ALANINE AMINOTRANSFERASE
PMR STUDIES OF THE GLUTAMATE-ALANINE TRANSAMINASE REACTION 1088
GLUTAMATE-ASPARTATE AMINOTRANSFERASE
PMR STUDIES OF THE GLUTAMATE-ALANINE TRANSAMINASE REACTION 1088
GLUTAMATE, GAMMA CARBOXY
SEE ALSO VITAMIN K
SEE ALSO CARBOXYGLUTAMATE
GLUTAMINASE
ANTITUMOR GLUTAMINASE-ASPARAGINASE FROM PSEUDOMONAS 7A 2119
STUDIES OF HUMAN KIDNEY GAMMA-GLUTAMYL TRANSPEPTIDASE 2271
GLUTAMINE-DEPENDENT GLUTAMATE SYNTHASE 3294
REGULATION OF ESCHERICHIA COLI GLUTAMINASE B. I 3447
REGULATION OF ESCHERICHIA COLI GLUTAMINASE B. II 3457
REGULATION OF ESCHERICHIA COLI GLUTAMINASE B. III 3463
PSEUDOMONAS 7A GLUTAMINASE-ASPARAGINASE 5375
L-ASPARAGINASE FROM VIBRIO SUCCINOGENES 6929
GLUTAMINE
AVIAN MITOCHONDRIAL GLUTAMINE METABOLISM 781
AMINO ACID RELEASE IN SKELETAL MUSCLE 826
AMINO ACID RELEASE IN SKELETAL MUSCLE 844
AMINO ACID RELEASE IN SKELETAL MUSCLE 851
CONTROL OF PYRIMIDINE SYNTHESIS BY GUANINE AND GUANOSINE 1427
LIGAND-INDUCED ALTERATIONS IN AMIDOPHOSPHORIBOSYLTRANSFERASE 2234
GLYCINE + L-GLUTAMINE SPECIFIC ACYL-CO A NIACYLTRANSFERASES 3352
GLYCINE + L-GLUTAMINE SPECIFIC ACYL-CO A NIACYLTRANSFERASES 3352
CTP SYNTHETASE OF CALF LIVER. SIZE, POLYMERIZATION 4372
GLUTAMINE (IN PROTEINS)
MICROHETEROGENEITY OF MYELIN BASIC PROTEIN 2671
GLUTAMINE AMIDOTRANSFERASE
ANTHRANILATE SYNTHETASE 941
GLUTAMINE-DEPENDENT GLUTAMATE SYNTHASE 3294
APOGLUTAMATE SYNTHASE AND GLUTAMATE DEHYDROGENASE 3380
GLUTAMINE RELEASE
AMINO ACID RELEASE IN SKELETAL MUSCLE 836
GLUTAMINE SYNTHETASE
AVIAN MITOCHONDRIAL GLUTAMINE METABOLISM 781
L-ASPARAGINASE OF KLEBSIELLA AEROGENES 2722
NEUROSPORA CRASSA GLUTAMINE SYNTHETASE 4787
METABOLISM OF RADIOACTIVE DINITROGEN BY A CYANOBACTERIUM 5627
GLUTAMINE SYNTHETASE EXCHANGES 5558
ATP OXYGEN SCRAMBLING 5881
CATALYTIC MECHANISMS OF GLUTAMINE SYNTHETASE ENZYMES 7538
GLUTAMINE TRANSAMINASE
ENZYMATIC REACTIONS OF METHIONINE SULFOXIMINE 6674
GLUTAMYL CYCLOTRANSFERASE
ALPHA-METHYLGLUTARATE 2263
GLUTAMYL TRANSFERASE
L-ASPARAGINASE OF KLEBSIELLA AEROGENES 2722
GLUTAMYL TRANSPEPTIDASE
ALPHA-METHYLGLUTARATE 2263
STUDIES OF HUMAN KIDNEY GAMMA-GLUTAMYL TRANSPEPTIDASE 2271
KINETICS OF GAMMA-GLUTAMYL TRANSPEPTIDASE 4736
PHYSICAL PROPERTIES OF TWO FORMS OF GLUTAMYLTRANSPEPTIDASE 7863
GLUTAMYL-PHOSPHATE
CATALYTIC MECHANISMS OF GLUTAMINE SYNTHETASE ENZYMES 7538
GLUTAMYLCARBOXYPEPTIDASE
ANALYSIS OF FOLATE DERIVATIVES IN MOUSE L1210 CELLS 3569
GLUTAMYLCYSTEINE SYNTHETASE
ALPHA-METHYLGLUTARATE 2263
GAMMA-GLUTAMYLCYSTEINE SYNTHETASE 3563
CYSTINE METABOLISM IN HUMAN FIBROBLASTS 4287
GLUTAMYLFOLATE
SEE ALSO FOLATE
GLUTATHIONE
SEE ALSO GLUTAMYLCYSTEINE SYNTHETASE
SEE ALSO SULFHYDRYLS
ALPHA-METHYLGLUTARATE 2263
STUDIES OF HUMAN KIDNEY GAMMA-GLUTAMYL TRANSPEPTIDASE 2271
PROSTAGLANDIN ENDOPEROXIDE SYNTHETASE 2629
BINDING AND DEGRADATION OF INSULIN BY HUMAN GRANULOCYTES 2761
FOLDING PATHWAY OF REDUCED LYSOZYME 3147
CYSTINE METABOLISM IN HUMAN FIBROBLASTS 4287
REFOLDING OF REDUCED BOVINE SERUM ALBUMIN 4883
A MECHANISM FOR THE GLUTATHIONE TRANSFERASES 6183
GLUTATHIONE CONJUGATES OF PROSTAGLANDIN A1 6550
GLUTATHIONE SYNTHETASE
ALPHA-METHYLGLUTARATE 2263
GLUTATHIONE TRANSFERASE
A MECHANISM FOR THE GLUTATHIONE TRANSFERASES 6183
GLUTATHIONE-MALEIMIDE
IMPERMEANT MALEIMIDES AND ERYTHROCYTE MEMBRANE PROTEINS 7176
EXOFACIAL COMPONENT OF ERYTHROCYTE HEXOSE TRANSPORT 7184
GLYCAN
SEE ALSO GLYCOSAMINOGLYCANS
GLYCERA DIBRANCHIATA
OXYGEN AND CARBON MONOXIDE KINETICS OF GLYCERA HEMOGLOBIN 2579
GLYCERALDEHYDE
BOVINE LENS ALDOSE REDUCTASE, PHYSICAL, KINETIC PROPERTIES 2696
GLYCERALDEHYDE-3-PHOSPHATE DEHYDROGENASE
ENZYMOLOGICAL STUDIES ON HEREDITARY AVIAN DYSTROPHY 4488
CHLOROPLAST NADP-GLYCERALDEHYDE 3-PHOSPHATE DEHYDROGENASE 6456
GLYCERATE 3-PHOSPHATE
SEE ALSO PHOSPHOGLYCERATE
GLYCERATE, 2,3-DIPHOSPHO-
SEE ALSO BISPHOSPHOGLYCERATE
GLYCEROL
SEE ALSO LIPIDS
REGULATION OF CARBOHYDRATE METABOLISM IN BACTERIA 883
CARBOHYDRATE UPTAKE IN GRAM POSITIVE BACTERIA 893
STABILITY AND ACTIVITY OF ISOPROPYLMALATE ISOMERASE 3545

HORMONAL CONTROL OF DIHYDROXYACETONE AND GLYCEROL METABOLISM 7841
GLYCEROL 1-PHOSPHATE
MEMBRANE DERIVED OLIGOSACCHARIDES OF ESCHERICHIA COLI 4208
GLYCEROL 3-PHOSPHATE
ACYL DIHYDROXYACETONE PHOSPHATE PATHWAY IN BHK FIBROBLASTS 5149
FAT CELL GLYCEROL-P AND DIHYDROXYACETONE-P ACYLTRANSFERASES 5738
METABOLIC FATE OF 3,4-DIHYDROXYBUTYL-1-PHOSPHONATE IN E.COLI 6717
GLYCEROLIPIDS
SEE ALSO LIPIDS
ACYL DIHYDROXYACETONE PHOSPHATE PATHWAY IN BHK FIBROBLASTS 5149
UNSATURATED FATTY ACID SYNTHESIS IN TETRAHYMENA 7588
GLYCINE
GLYCINE + L-GLUTAMINE SPECIFIC ACYL-CO A NIACYLTRANSFERASES 3352
STEREOSPECIFICITY IN SPHINGANINE 1-PHOSPHATE LYASE REACTION 4448
C13 NMR STUDY-NONENZYMATIC REACTIONS OF PLP WITH AMINO ACIDS 7661
GLYCINE (IN PROTEINS)
ALPHA-N-ACETYLATION OF EHRLICH ASCITES PROTEINS 1089
GLYCINE ETHYLESTER
SPECIFICITY OF CHYMOTRYPSIN WITH CARBOXYL GROUPS BLOCKED 2353
GLYCINE TRNA
TRANSFER RNA PRECURSORS FROM ESCHERICHIA COLI 922
GLYCOCALICIN
PLATELET GLYCOCALICIN I. SURFACE ORIENTATION 5944
PLATELET GLYCOCALICIN II. PURIFICATION 5950
GLYCOGEN
HORMONAL CONTROL OF GLYCOGEN METABOLISM IN FETAL HEPATOCYTES 1431
GLYCOGEN METABOLISM IN ASTROCYTOMA AND NEUROBLASTOMA CELLS 2015
MULTIPLE KINETIC FORMS OF ADIPOSE TISSUE GLYCOGEN SYNTHASE 2316
ALPHA-ADRENERGIC ACTIVATION OF HEPATIC GLUCOSE OUTPUT I. 5200
ALPHA-ADRENERGIC ACTION IN LIVER. II 5209
CARNITINE AND NEONATAL KETOSIS 6007
INSULIN EFFECTS ON HEART GLYCOGEN SYNTHASE PHOSPHATASE 6724
E. COLI ADP-GLUCOSE PYROPHOSPHORYLASE 7680
GLYCOGEN PHOSPHORYLASE
GLYCOGEN PHOSPHORYLASE IN DICTYOSTELIUM DISCOIDEUM.I. 1253
GLYCOGEN PHOSPHORYLASE ACCUMULATION IN D. DISCOIDEUM. II. 1258
INACTIVATION OF PHOSPHORYLASE B BY POTASSIUM FERRATE 1553
GLYCOGEN METABOLISM IN ASTROCYTOMA AND NEUROBLASTOMA CELLS 2015
ACTION OF PHOSPHORYLASE PHOSPHATASE ON GLYCOGEN SYNTHASE B 2363
X-RAY STRUCTURE AND LIGAND BINDING OF PHOSPHORYLASE A 6142
INSULIN EFFECTS ON HEART GLYCOGEN SYNTHASE PHOSPHATASE 6724
ACTIVITY OF GLYCOGEN PHOSPHORYLASE IN THE CRYSTALLINE STATE 6852
PHOSPHORYLASE KINASE AUTOPHOSPHORYLATION AND SUBSTRATES 7480
GLYCOGEN PHOSPHORYLASE KINASE
AUTOACTIVATION OF PHOSPHORYLASE KINASE 4521
GLYCOGEN SYNTHASE
RABBIT SKELETAL MUSCLE GLYCOGEN SYNTHASE I 1913
RABBIT SKELETAL MUSCLE GLYCOGEN SYNTHASE II 1920
GLYCOGEN METABOLISM IN ASTROCYTOMA AND NEUROBLASTOMA CELLS 2015
MULTIPLE KINETIC FORMS OF ADIPOSE TISSUE GLYCOGEN SYNTHASE 2316
ACTION OF PHOSPHORYLASE PHOSPHATASE ON GLYCOGEN SYNTHASE B 2363
EFFECTS OF TRYPSIN ON GLYCOGEN SYNTHETASE 4359
ALPHA-ADRENERGIC ACTIVATION OF HEPATIC GLUCOSE OUTPUT I. 5200
ALPHA-ADRENERGIC ACTION IN LIVER. II 5209
INSULIN EFFECTS ON HEART GLYCOGEN SYNTHASE PHOSPHATASE 6724
GLYCOGEN SYNTHASE PHOSPHATASE
PHOSPHOPROTEIN PHOSPHATE(S) 4850
GLYCOGENOLYSIS
CYCLIC GMP, CA2-PLUS AND GLYCOGENOLYSIS BY LIVER CELLS 2987
GLYCOGENOLYSIS AND CARDIAC SARCOPLASMIC RETICULUM 3140
GLYCOLATE OXIDASE
NUCLEOPHILIC REACTIONS OF DEAZAFLAVINS 4872
GLYCOLIPIDS
SEE ALSO LIPIDS
SEE ALSO SPHINGOLIPIDS
ACETYLTRANSFERASE FROM C. BOGORIENSIS 424
ACETYL- AND CARBOXYLESTERASES FROM C. BOGORIENSIS 431
LIPID COMPOSITION OF OCHROMONAS DANICA FLAGELLAR MEMBRANE 1835
ALPHA-FUCOPYRANOSYL-CERAMIDE 2385
FORMATION AND PROPERTIES OF RETINYLPHOSPHATE GALACTOSE 4986
MEMBRANE GLYCOPROTEINS OF EN(A-) ERYTHROCYTES 6108
FORMATION OF LIPID-SACCHARIDE INTERMEDIATE BY THYROID SLICES 6400
STRUCTURE OF A THYROID OLIGOSACCHARIDE-LIPID INTERMEDIATE 6409
COMPARISON OF OLIGOSACCHARIDE-LIPIDS FROM SEVERAL TISSUES 6420
GANGLIOSIDES OF HUMAN KIDNEY 7517
FAT CELL CHOLERA TOXIN RECEPTOR 7610
ROLE OF TRISACCHARIDE-LIPID IN GLYCOSYLATION OF PROTEINS 7802
GLYCOLYSIS
AMINO ACID RELEASE IN SKELETAL MUSCLE 826
PHOSPHOFRUCTOKINASE STABILIZING FACTOR FROM LIVER 2323
6-PHOSPHOFRUCTOKINASE (PYROPHOSPHATE) 2958
HYSTERETIC KINETICS OF ERYTHROCYTE PYRUVATE KINASE 5600
PHOSPHOLIPID INHIBITION OF GLYCOLYSIS IN BRAIN 7149
GLYCOPEPTIDES
SEE ALSO GLYCOPROTEINS
STRUCTURE OF A PROKARYOTIC GLYCOPROTEIN FROM H. SALINARIUM 2005
MANNOSYL GLYCOPEPTIDES AND CELL GROWTH STATUS 4673
CARBOHYDRATE STRUCTURE OF HEPATIC BINDING PROTEIN 5292
HEN OVIDUCT ENDO-BETA-N-ACETYLGLUCOSAMINIDASE 6537
ROLE OF TRISACCHARIDE-LIPID IN GLYCOSYLATION OF PROTEINS 7802
GLYCOPHORIN
BLOOD GROUP ACTIVE GLYCOPROTEIN OF ERYTHROCYTE MEMBRANE 3610
GLYCOPROTEINS
SEE ALSO GLYCOPEPTIDES
SEE ALSO GLYCOSAMINOGLYCANS
SEE ALSO GLYCOSIDASES
SEE ALSO LECTINS
TOPOGRAPHY OF GLYCOPROTEINS IN THE INTACT MYELIN SHEATH 153
GLYCOPROTEIN OF EIMERIA TENELLA OOCYSTS 302
OLIGOSACCHARIDES IN ALPHA-1-PROTEASE INHIBITOR 471
HUMAN ERYTHROCYTE GLYCOPROTEINS 510
TURNOVER OF THE PLASMA MEMBRANE PROTEINS OF HTC CELLS 872
AMINO ACID SEQUENCE OF HUMAN FSH-BETA SUBUNIT 993
AGLYCOSYLANTIBODY SURVIVAL IN THE CIRCULATION 1074
CROSSLINKING OF NA-K ATPASE 1247
A HEPATIC BINDING PROTEIN FOR ASIALOGLYCOPROTEINS 1296
CARBOHYDRATE COMPOSITION OF BOVINE RHODOPSIN 1548
DISPENSABILITY OF CARBOHYDRATE MOIETY IN INTERFERON ACTIVITY 1659
OCHROMONAS FLAGELLAR MEMBRANE ISOLATION AND CHARACTERIZATION 1828
SURFACE ALTERATIONS IN PERIODATE-OXIDIZED LYMPHOCYTES 1864
MEMBRANE BOUND PEPTIDOGLYCAN SYNTHETIC PROTEIN B NEGATERIUM 1889
STRUCTURE OF A PROKARYOTIC GLYCOPROTEIN FROM H. SALINARIUM 2005
RAMAN SPECTRA OF AN ANTIFREEZE GLYCOPROTEIN 2290
UTILIZATION OF EXOGENOUS GDP-MANNOSE BY OVIDUCT CELLS 2511
CHARACTERIZATION OF K8 ALKALINE PHOSPHATASE 2620
INTRACELLULAR RETINOL-BINDING LIPOGLYCOPROTEINS 2952
BORATE INACTIVATION OF ANTIFREEZE GLYCOPROTEIN 3033
PURIFICATION OF INTESTINAL BRUSH BORDER MEMBRANE PEPTIDASES 3199
PROPERTIES OF INTESTINAL BRUSH BORDER MEMBRANE PEPTIDASES 3206
AA SEQUENCE OF ACTIVE SITE PEPTIDES FROM SUCRASE-ISOMALTASE 3250
GLYCOPROTEIN-ENRICHED VESICLES FROM ERYTHROCYTE GHOSTS 3580
ENDO-BETA-GALACTOSIDASE ACTING ON BLOOD GROUP SUBSTANCES 3603
BLOOD GROUP ACTIVE GLYCOPROTEIN OF ERYTHROCYTE MEMBRANE 3610
ALPHA-D-MANNOSIDASE OF RAT LIVER CYTOSOL 3845
COLCHICINE INHIBITION OF HEPATIC GLYCOPROTEIN SECRETION 3887
SUBUNIT COMPOSITION OF THE GLOMERULAR BASEMENT MEMBRANE 4062
HIGH MOLECULAR WEIGHT FORMS OF ACTH ARE GLYCOPROTEINS 4121
THE PLASMA MEMBRANE OF HUMAN PLACENTA 4139
CHEMICAL ANALYSES OF HLA-ANTIGENS 4214
COMPARISON OF NORMAL AND Z-VARIANT ALPHA-1-ANTITRYPSINS 4751
HOMOLOGY OF PULMONARY ANGIOTENSIN-CONVERTING ENZYMES 4828
CARBOHYDRATE STRUCTURE OF HEPATIC BINDING PROTEIN 5292
SUBUNIT STRUCTURE OF WISTARIA FLORIBUNDA LECTIN 5686
SUBUNIT COMPOSITION OF ISOLATED HAPTOGLOBIN 2-1 POLYMERS 5845
PLATELET GLYCOCALICIN I. SURFACE ORIENTATION 5944
PLATELET GLYCOCALICIN II. PURIFICATION 5950
EFFECT OF GLYCOSYLATION ON PLASMA HALF-LIFE OF RIBONUCLEASE 6016
MEMBRANE GLYCOPROTEINS OF EN(A-) ERYTHROCYTES 6108
COMPARISON OF PURIFIED MURINE LEUKEMIA VIRUS GLYCOPROTEINS 6197
GLUCOSE EFFECT ON KINETICS OF MUCOPOLYSACCHARIDE SYNTHESIS 6210
REDUCTION OF DISULFIDES IN GLYCOPROTEIN HORMONES 6388
REDUCTION AND REOXIDATION OF DISULFIDES OF LH ALPHA 6392
FORMATION OF LIPID-SACCHARIDE INTERMEDIATE BY THYROID SLICES 6400
STRUCTURE OF A THYROID OLIGOSACCHARIDE-LIPID INTERMEDIATE 6409
COMPARISON OF OLIGOSACCHARIDE-LIPIDS FROM SEVERAL TISSUES 6420
MEMBRANES OF DEVELOPING CHICK ERYTHROCYTES 6667
FORMATION OF LIPID-LINKED SUGAR COMPOUNDS IN H. SALINARIUM 7289
SUBCELLULAR SITES OF HEPATIC BINDING PROTEIN 7539
MOLECULAR PROPERTIES OF MICROSOMAL MEMBRANE PROTEINS 7699
RICIN-RESISTANT MOUSE L CELL LINES 7761
LIPOPROTEIN LIPASE FROM BOVINE MILK 7791
ROLE OF TRISACCHARIDE-LIPID IN GLYCOSYLATION OF PROTEINS 7802
GLYCOSA
SEE ALSO HEPARIN
GLYCOSAMINOGLYCANS
SEE ALSO HEPARIN
BIOSYNTHESIS OF CHONDROITIN SULFATE 285
BIOSYNTHESIS OF CHONDROITIN SULFATE 3942
PLATELET FACTOR FOUR 4273
GLYCOSAMINOGLYCAN BIOSYNTHESIS DURING CORNEAL DEVELOPMENT 6513
GLYCOSIDASES
AGLYCOSYLANTIBODY SURVIVAL IN THE CIRCULATION 1074
ACTIVATOR STIMULATING THE ENZYMIC HYDROLYSIS OF GLYCOLIPIDS 1159
DISPENSABILITY OF CARBOHYDRATE MOIETY IN INTERFERON ACTIVITY 1659
ENDO-BETA-GALACTOSIDASE ACTING ON BLOOD GROUP SUBSTANCES 3603
ALPHA-D-MANNOSIDASE OF RAT LIVER CYTOSOL 3845
BETA-MANNOSIDASE FROM THE MUSHROOM POLYPORUS SULFUREUS 4384
MANNOSYL GLYCOPEPTIDES AND CELL GROWTH STATUS 4673
DEACETYLATION ACTIVITY OF SALMONELLA PHAGE C341 5361
TWO LECTINS FROM CARAGANA ARBORESCENS SEEDS 5929
ENDO-BETA-GALACTOSIDASE HYDROLYSIS OF COMPLEX CARBOHYDRATES 6218
HEN OVIDUCT ENDO-BETA-N-ACETYLGLUCOSAMINIDASE 6537
GLYCOSPHINGOLIPIDS
SEE ALSO SPHINGOLIPIDS
COMPOSITION AND STRUCTURE OF LIPOPHOSPHONOGLYCAN 2976
STRUCTURING OF GANGLIOSIDE AGGREGATES 7083
STRUCTURING OF GANGLIOSIDE AGGREGATES 7083
FAT CELL CHOLERA TOXIN RECEPTOR 7610
GANGLIOSIDE BIOSYNTHESIS IN NB41A MOUSE NEUROBLASTOMA CELLS 7626
GLYCOSYLATION
SYNTHESIS OF BASEMENT MEMBRANE COLLAGEN BY ENDOTHELIUM 738
ATTACHMENT OF CARBOHYDRATE TO OVALBUMIN NASCENT CHAINS 5498
FORMATION OF LIPID-LINKED SUGAR COMPOUNDS IN H. SALINARIUM 7289
ROLE OF TRISACCHARIDE-LIPID IN GLYCOSYLATION OF PROTEINS 7802
GLYCOSYLTRANSFERASES
BIOSYNTHESIS OF CHONDROITIN SULFATE 285
CHONDROITIN SULFATE GLYCOSYLTRANSFERASES IN CHONDROCYTES 3346
PROTEIN BINDING TO GALACTOSYLTRANSFERASE 3653
ROLE OF GANGLIOSIDE STRUCTURE IN CHOLERAGEN RESPONSE 4490
GANGLIOSIDE BIOSYNTHESIS IN NB41A MOUSE NEUROBLASTOMA CELLS 7626
GLYCYLGLYCINE
CARBAMATE IN GLYCYLGLYCINE PLASMA AND TISSUE EXTRACTS 4398
GLYOXALASE
OXIDATION OF TRANSALDOLASE INTERMEDIATE 4220
GLYOXALATE CARBOLIGASE
DEAZAFAD-GLYOXALATE CARBOLIGASE 329
GLYOXYLATE AMINOTRANSFERASES
RAT LIVER + KIDNEY PEROXISOMES. GLYOXYLATE AMINOTRANSFERASE 4468
GMP
LIGAND-INDUCED ALTERATIONS IN AMIDOPHOSPHORIBOSYLTRANSFERASE 2234
SPECIFICITY OF VACCINIA MRNA GUANYLYL- AND METHYLTRANSFERASE 7313
REGULATION OF DE NOVO PURINE SYNTHESIS IN HUMAN LYMPHOBLASTS 7348
GMP-P(NH)P
BETA-ADRENERGIC RECEPTOR INTERACTIONS 1239
REGULATION OF NEUROBLASTOMA ADENYLATE CYCLASE 3399
REGULATION OF ADENYLATE CYCLASE BY ADENOSINE 4239
NUCLEOTIDES REGULATE BETA-ADRENERGIC RECEPTORS 4686
NEGATIVE COOPERATIVITY AMONG BETA-ADRENERGIC RECEPTORS 5007
TWO SOLUBLE FORMS OF ADENYLATE CYCLASE 5831
GMP, CYCLIC
SEE ALSO CYCLIC GMP
SEE ALSO GUANYLATE CYCLASE
GOLFINGIA GOULDI
KINETICS OF THE HEMERYTHRIN-OXYGEN INTERACTION 2339
GOLGI APPARATUS
SEE ALSO SECRETION
SYNTHESIS IN VITRO OF INTRINSIC MEMBRANE PROTEINS 5854
GOLGI GALACTOSYLTRANSFERASE OF CONCANAVALIN A 5860
GOLGI COMPLEX
SUBCELLULAR SITES OF HEPATIC BINDING PROTEIN 7539
GONADOTROPINS
SEE ALSO ANDROGENS
SEE ALSO CHORIONIC GONADOTROPIN
SEE ALSO FOLLICLE STIMULATING HORMONE
TESTICULAR PROTEIN KINASES 914
DESENSITIZATION BY LH OF LH-RESPONSIVE ADENYLYL CYCLASE 2653
FOLLITROPIN RECEPTOR INTERACTION 3326
BINDING OF GONADOTROPIN TO SOLUBLE FACTORS FROM RAT TESTIS 4947
CORRECTION TO ROCKAERT ET AL VOL. 251 (1976) P. 2653 5429
ON THE ROLE OF PLASMINOGEN ACTIVATOR IN OVULATION 5694
GONADOTROPIN RECEPTORS IN CORPUS LUTEUM PLASMA MEMBRANES 7398
PHOSPHOLIPID ROLE IN CORPUS LUTEUM GONADOTROPIN RECEPTORS 7405
GONADOTROPIN INDUCED DESENSITIZATION OF ADENYLATE CYCLASE 7729
GPP(NH)P
SEE ALSO GMP-P(NH)P
GRAAFIAN FOLLICLES
SEE ALSO OVARY
GRAM STAIN
TRANSLATION SPECIFICITY OF BACTERIAL RIBOSOMES AND MRNA 2499
GRAM-POSITIVE BACTERIA
SEE SPECIFIC ORGANISM

GRANULES
CHARACTERIZATION OF PORCINE NEUROPHYSIN III 2735
GRANULOCYTES
SEE ALSO WHITE BLOOD CELLS
GRANULOSA CELLS
ON THE ROLE OF PLASMINOGEN ACTIVATOR IN OVULATION 5694
GROWTH
SEE ALSO DEVELOPMENT, DIFFERENTIATION
SEE ALSO EPIDERMAL GROWTH FACTOR
SEE ALSO STARVATION
PROTEIN DEGRADATION IN REGENERATING LIVER 2891
MANNOSYL GLYCOPEPTIDES AND CELL GROWTH STATUS 4673
GROWTH CONTROL
PROTEIN KINASE IN THE OUTER MEMBRANE OF 3T3 AND SV3T3 CELLS 7899
GROWTH HORMONE
BOVINE PLACENTAL LACTOGEN 2703
HGH REGULATION OF ITS OWN RECEPTOR CONCENTRATION ON IM-9 3728
HORMONE RECEPTORS MICROFILAMENT MICROTUBULE MODIFIER EFFECTS 6844
GTP
SEE ALSO GUANYLATE CYCLASE
P-ENOLPYRUVATE CARBOXYKINASE INHIBITED BY MERCAPTOPICOLINATE 37
SELECTIVE MODIFICATION OF A CYSTEINE IN ELONGATION FACTOR G 930
ATP-DEPENDENT PROPERTIES OF MITOCHONDRIA 934
STOICHIOMETRY OF POLYPEPTIDE CHAIN ELONGATION 1718
CHARACTERIZATION OF EIF-3 1926
CORRECTION TO MARTIN ET AL VOL. 250 (1975) P. 9322 2539
DESENSITIZATION BY LH OF LH-RESPONSIVE ADENYLYL CYCLASE 2653
METAL(II) ION, ANION EFFECTS ON P-ENOLPYRUVATE CARBOXYKINASE 2916
PURIFICATION OF A VIRION PROTEIN KINASE 3176
REGULATION OF NEUROBLASTOMA ADENYLATE CYCLASE 3399
GUANYLATE CYCLASE PURIFICATION 4071
FORMATION OF REOVIRUS MRNA TERMINAL SEQUENCE M7-GPPPG-M-PC 5043
CORRECTION TO BOCKAERT ET AL VOL. 251 (1976) P. 2653 5429
IMP-P(NH)P INHIBITION OF ATPASE 6705
SPECIFICITY OF VACCINIA MRNA GUANYLYL- AND METHYLTRANSFERASE 7313
GTP CYCLOHYDROLASE
CHARACTERISTICS OF GTP CYCLOHYDROLASE I 5087
GUANASE
AMMONIA PRODUCTION IN BRAIN 485
GUANINE
LIVER PURINE NUCLEOSIDE PHOSPHORYLASE 407
CONTROL OF PYRIMIDINE SYNTHESIS BY GUANINE AND GUANOSINE 1427
REGULATION OF DE NOVO PURINE SYNTHESIS IN HUMAN LYMPHOBLASTS 7348
GUANOSINE
SEE ALSO METHYLGUANOSINE
CONTROL OF PYRIMIDINE SYNTHESIS BY GUANINE AND GUANOSINE 1427
BIOSYNTHESIS OF RIBOFLAVIN 3623
INHIBITION OF PP-RIBOSE-P-SYNTHESIS BY PURINE NUCLEOSIDES 5839
GUANOSINE DIPHOSPHATE
SEE ALSO GDP
GUANOSINE MONOPHOSPHATE
SEE ALSO GMP
GUANOSINE TRIPHOSPHATE
SEE ALSO GTP
GUANOSINE 3,5-MONOPHOSPHATE
SEE ALSO CYCLIC GMP
GUANOSINE, 7-METHYL
METHYLATED, BLOCKED 5-PRIME TERMINI OF YEAST M-RNA 2898
GUANYLATE
SEE ALSO GMP
GUANYLATE CYCLASE
SEE ALSO CYCLIC GMP
CYCLIC GMP METABOLISM IN NORMAL AND TRANSFORMED FIBROBLASTS 2344
GUANYLATE CYCLASE PURIFICATION 4071
EFFECTS OF SODIUM AZIDE ON RENAL CORTICAL CGMP 4651
STIMULATION OF GUANYLATE CYCLASE BY FREE FATTY ACIDS 5802
ACTIVATION OF RAT LUNG GUANYLATE CYCLASE BY INCUBATION 7304
MAGNESIUM DEPENDENT GUANYLATE CYCLASE 7769
GUANYLYL IMIDODIPHOSPHATE
SEE ALSO GMP-P(NH)P
REGULATION OF NEUROBLASTOMA ADENYLATE CYCLASE 3399
GUANYLYLTRANSFERASE
CORRECTION TO MARTIN ET AL VOL. 250 (1975) P. 9322 2539
SPECIFICITY OF VACCINIA MRNA GUANYLYL- AND METHYLTRANSFERASE 7313

H

HALF-SITE REACTIVITY
HORMONE BINDING EFFECTS ON NEUROPHYSIN QUATERNARY STRUCTURE 3965
HALF-SITE STOICHIOMETRY
FILTER ASSAY TO ESTIMATE WEAK LIGAND BINDING TO ATCASE 5986
KINETIC EPR AND NMR STUDIES OF MALIC ENZYME 6574
HALOBACTERIUM SALINARIUM
STRUCTURE OF A PROKARYOTIC GLYCOPROTEIN FROM H. SALINARIUM 2685
FORMATION OF LIPID-LINKED SUGAR COMPOUNDS IN H. SALINARIUM 7289
HALOGENATION
COMPOUND X 6340
HALOPYRIMIDINE
ENZYMATIC RING HYDROLYSIS OF 5-IODO-5,6-DIHYDROURACIL 6909
HAMMETT CONSTANTS
ACYLATION OF SUBTILISIN CARLSBERG BY PHENYL ESTERS 1006
HAMMETT EQUATION
A MECHANISM FOR THE GLUTATHIONE TRANSFERASES 6183
HAMSTER OVARY CELLS
SEE ALSO OVARY CELLS
HANSENULA CIFERRI
MECHANISM OF 3-KETOSPHINGANINE SYNTHETASE 1597
HANSENULA WRAKII
PROPERTIES OF 2-NITROPROPANE DIOXYGENASE 6994
HAPTOGLOBIN
REACTION OF HAPTOGLOBIN WITH CROSSLINKED HEMOGLOBIN 465
SUBUNIT COMPOSITION OF ISOLATED HAPTOGLOBIN 2-1 POLYMERS 5845
HEART
SEE ALSO MUSCLE, CARDIAC
5-NUCLEOTIDASE IN PERFUSED HEART, SKELETAL MUSCLE AND LIVER 6372
HEART CELLS
CORRECTION TO ELSAS ET AL VOL. 250 (1975) P. 9381 2539
HELA CELLS
PURIFICATION OF HERPES SIMPLEX VIRUS DEOXYTHYMIDINE KINASE 2605
STOICHIOMETRY OF HELA NUCLEOLAR RIBOSOMAL PROTEINS 2867
EXCHANGE AND STABILITY OF HELA RIBOSOMAL PROTEINS IN VIVO 2876
ABRIN AND RICIN BINDING KINETICS WITH HUMAN CELLS 3977
STEPS IN INHIBITION OF PROTEIN SYNTHESIS BY ABRIN AND RICIN 3985
MESSENGER RNA (GUANINE-7-)-METHYLTRANSFERASE OF HELA CELLS 5283
METHYLATED GUANOSINE NUCLEOTIDE INHIBITS HELA TRANSLATION 5657
DIPHTHERIA TOXIN INTERACTION WITH CELL MEMBRANES 5778
POLY(A)-RICH RIBONUCLEOPROTEIN COMPLEXES IN HELA MRNA 5888
ENDORIBONUCLEASE FROM HELA CELL NUCLEI 7132
HEMAGGLUTINATION
SEE ALSO LECTINS
HEMATOSIDES
SEE ALSO GANGLIOSIDES
HEME
SEE ALSO CYTOCHROMES
SEE ALSO HEMOGLOBIN
SEE ALSO HEMOPROTEINS
SEE ALSO LEGHEMOGLOBIN
SEE ALSO MYOGLOBIN
SEE ALSO TRYPTOPHAN OXYGENASE
AMINOLEVULINIC ACID SYNTHASE OF LIVER 1348
REACTIONS OF RECONSTITUTED MYOGLOBINS WITH O2 AND CO 1418
YEAST CYTOCHROME C1 1991
YEAST CYTOCHROME C1 1997
PROSTAGLANDIN ENDOPEROXIDE SYNTHETASE 2629
CARBON MONOXIDE BINDING BY CYTOCHROME C OXIDASE 2861
UNIQUE PROSTHETIC GROUP OF ERYTHROCYTE HEMOPROTEIN 3927
EFFECT OF COBALT ON SYNTHESIS OF HEME AND CYTOCHROME P 450 4421
AMINOLEVULINIC ACID SYNTHETASE IN THE HEART 4996
EPR OF TUNGSTEN-CONTAINING SULFITE OXIDASE 5585
NEGLIGIBLE AMOUNT OF COPPER IN L-TRYPTOPHAN 2,3-DIOXYGENASE 7722
ELECTRONIC STATE OF HEME IN CYTOCHROME OXIDASE 7987
HEMERYTHRIN
KINETICS OF THE HEMERYTHRIN-OXYGEN INTERACTION 2339
HEMOCYANIN
LIMULUS HEMOCYANINS 7644
HEMOGLOBIN
SEE ALSO GLOBIN
SEE ALSO METHEMOGLOBIN
SEE ALSO PROTEIN, SYNTHESIS IN VITRO (ANIMAL)
HORSE HEMOGLOBINS CONTAINING DEUTERO- AND MESOHEME 45
MERCURIAL BINDING TO HEMOGLOBIN 441
PHOSPHATE BINDING TO HEMOGLOBIN 447
REACTION OF HAPTOGLOBIN WITH CROSSLINKED HEMOGLOBIN 465
PROTEINS OF FRIEND LEUKEMIA CELLS 555
SUPEROXIDE MEDIATED METHEMOGLOBIN FORMATION 1015
PREPARATION AND ASSAY OF ANTIBODIES TO HEMOGLOBIN S FRAGMENT 1283
PROPERTIES OF ANTIBODIES TO A HEMOGLOBIN S FRAGMENT 1298
CONFORMATIONAL CHANGES IN HBCO FOLLOWING LASER PHOTOLYSIS 1533
ALLOSTERIC TRANSITIONS IN COBALT HEMOGLOBINS 1670
ROOT EFFECT HEMOGLOBIN OF A MARINE FISH 1871
HEME REDUCTION IN HUMAN METHEMOGLOBIN 2077
OXYGEN AND CARBON MONOXIDE KINETICS OF GLYCERA HEMOGLOBIN 2579
KINETICS OF DISSOCIATION OF NITRIC OXIDE FROM HEMOGLOBIN 2788
PHENYLHYDRAZINE, HEMOGLOBIN AND SUPEROXIDE GENERATION 3045
HYDROXYLASE ACTIVITY OF HEMOGLOBIN 3436
ANILINE-OXYHEMOGLOBIN INTERACTION 3442
O2 BINDING + SUBUNIT DISSOCIATION OF TADPOLE HEMOGLOBINS 4254
KINETICS OF CARBOXYHEMOGLOBIN 4267
ABNORMAL HEMOGLOBIN SYNTHESIS AND SUBUNIT EXCHANGE 4346
LIGAND BINDING TO ALPHA AND BETA CHAINS OF HEMOGLOBIN 4379
INTERACTION OF CARBOXYHEMOGLOBIN AND INOSITOL HEXAPHOSPHATE 4763
STRUCTURAL RELEVANCE OF BETA6GLU-VAL MUTATION IN HEMOGLOBIN 4968
SUBUNIT DISSOCIATION IN HEMOGLOBIN AND THE BOHR EFFECT 5537
PURIFICATION OF INITIATION FACTORS M2B-ALPHA + M2B-BETA 5551
NONUNIFORM BIOSYNTHESIS OF MAMMALIAN MULTIPLE HEMOGLOBINS 5703
HEMOGLOBINS NANGY AND COCHIN-PORT-ROYAL 5875
LEGHEMOGLOBIN AND ITS COMPLEXES WITH NICOTINATE AND ACETATE 6090
SYNTHESIS OF PEPTIDES FROM SICKLE HEMOGLOBIN BETA CHAIN 6426
MONOSPECIFIC ANTIBODIES TO SICKLE HEMOGLOBIN BETA CHAINS 6431
STUDIES ON THE FOURTH STEP IN LIGAND BINDING TO HEMOGLOBIN 6692
INTERACTION OF ORGANOPHOSPHATES WITH HEMOGLOBINS 6815
SPIN LABEL STUDIES ON APOHEMOGLOBIN 6838
RELATIVE OXYGEN BINDING TO SUBUNITS OF HEMOGLOBIN A BY NMR 7114
STRUCTURE OF HEMOGLOBINS PROVIDENCE ASP AND ASN 7557
FUNCTIONAL PROPERTIES OF TWO FORMS OF HB PROVIDENCE 7563
SUBUNIT DISSOCIATION IN FISH HEMOGLOBINS 7632
REACTIVITY OF CYANATE WITH VALINE-1(ALPHA) OF HEMOGLOBIN 7638
AGGREGATION OF DEOXYHEMOGLOBINS AT LOW CONCENTRATIONS 7657
BINDING OF INOSITOL HEXAPHOSPHATE TO DEOXYHEMOGLOBIN 7720
FORMATION OF DEOXYHEMOGLOBIN 7871
HEMOGLOBIN S
STRUCTURAL RELEVANCE OF BETA6GLU-VAL MUTATION IN HEMOGLOBIN 4968
METHYLISOCYANATE AS AN ANTI-SICKLING AGENT 6226
INTERACTION OF ORGANOPHOSPHATES WITH HEMOGLOBINS 6815
HEMOLYSIS
SUPEROXIDE ANION AND DRUG INDUCED HEMOLYSIS 6468
HEMOPHILUS INFLUENZAE
HEMOPHILUS EXO V ACTIVITY ON CROSS-LINKED DNA 6117
BINDING OF HEMOPHILUS EXO V TO DNA 6122
DNA DEGRADATION BY HEMOPHILUS EXONUCLEASE B 6127
HEMOPROTEINS
SEE ALSO HEME
UNIQUE PROSTHETIC GROUP OF ERYTHROCYTE HEMOPROTEIN 3927
A PH-DEPENDENT STOICHIOMETRY WITH HORSERADISH PEROXIDASE 6043
LEGHEMOGLOBIN AND ITS COMPLEXES WITH NICOTINATE AND ACETATE 6090
TEMPERATURE EFFECTS ON ADRENAL CORTICAL CYT P-450SCC 7128
NEGLIGIBLE AMOUNT OF COPPER IN L-TRYPTOPHAN 2,3-DIOXYGENASE 7722
TWO HOMOGENEOUS FORMS OF LIVER MICROSOMAL CYTOCHROME P 450 7929
HEMOSTASIS
SEE ALSO CLOTTING, BLOOD
PLATELET PROTEASE INHIBITORS 4514
HEPARAN SULFATE
GLYCOSAMINOGLYCAN BIOSYNTHESIS DURING CORNEAL DEVELOPMENT 6513
HEPARIN
SEE ALSO CLOTTING, BLOOD
PURIFICATION OF HUMAN PLATELET FACTOR 4 324
PLATELET FACTOR FOUR 4273
INHIBITION OF FACTOR XIIA BY ANTITHROMBIN-HEPARIN COFACTOR 6481
HEPARIN-SEPHAROSE
LIPOPROTEIN LIPASE FROM BOVINE MILK 7791
HEPATECTOMY
PROTEIN DEGRADATION IN REGENERATING LIVER 2891
HEPATOCELLULAR CARCINOMA
ETHANOL OXIDATION BY RAT HEPATOCELLULAR CARCINOMA 5366
HEPATOCYTE CELLS
SEE ALSO HEPATOMA CELLS
EFFECT OF COBALT ON SYNTHESIS OF HEME AND CYTOCHROME P 450 4421
HORMONAL CONTROL OF DIHYDROXYACETONE AND GLYCEROL METABOLISM 7841
HEPATOCYTES
SEE ALSO LIVER CELLS
COLCHICINE INHIBITION OF HEPATIC GLYCOPROTEIN SECRETION 3887
EFFECT OF COBALT ON SYNTHESIS OF HEME AND CYTOCHROME P 450 4421
HEPATOMA
ETHANOL OXIDATION BY RAT HEPATOCELLULAR CARCINOMA 5366
HEPATOMA CELLS
SEE ALSO REUBER H35 CELLS
RECEPTOR-STEROID COMPLEX INTERACTIONS WITH ACCEPTOR SITES 334
TURNOVER OF THE PLASMA MEMBRANE PROTEINS OF HTC CELLS 872
DNA-BINDING NON-HISTONE PROTEINS 1471
REGULATION OF HMG CO A REDUCTASE IN HTC CELLS 1745
ACTION OF P-CHLOROPHENYLALANINE OF PHENYLALANINE HYDROXYLASE 3677
BIOSYNTHESIS OF ORNITHINE DECARBOXYLASE 4436
VALINE POOL AND PROTEIN SYNTHESIS AND DEGRADATION 4458

PROPERTIES OF PHENYLALANINE HYDROXYLASE OF H4-II-E-C3 CELLS 6901
HERPES SIMPLEX VIRUS
PURIFICATION OF HERPES SIMPLEX VIRUS DEOXYTHYMIDINE KINASE 2605
HERPES VIRUS-INDUCED INCORPORATION OF AIDURO INTO DNA 4833
HETEROCYSTS
HETEROCYST AND SPORE POLYSACCHARIDES 2967
HETERODUPLEX MAPPING
THE PHYSICAL MAPPING OF BACTERIOPHAGE T5 TRANSFER TRNAS 536
HETERONEMERTINE
SEQUENCE OF CEREBRATULUS LACTEUS NEUROTOXIN B-IV 6025
HEXACYANOLFERRATE
OXIDATION OF TRANSALDOLASE INTERMEDIATE 4220
HEXOKINASE
EFFECT OF FASTING ON GLYCOLYTIC ENZYMES IN PANCREATIC ISLETS 1731
ALLOSTERIC REGULATION OF HEXOKINASE C FROM AMPHIBIAN LIVER 5035
TETRAIODOFLUORESCEIN WITH YEAST HEXOKINASE 7157
PH-DEPENDENT EFFECTS OF CR(NH3)2ATP ON HEXOKINASE KINETICS 7521
HEXOSE
SEE ALSO GLUCOSE
HEXOSE DIPHOSPHATASE
SEE ALSO FRUCTOSE BISPHOSPHATASE
HIGH DENSITY LIPOPROTEINS
SEE ALSO LIPOPROTEINS
ACTION OF PHOSPHOLIPASE A2 ON HDL3 1984
STRUCTURE OF HIGH DENSITY LIPOPROTEINS 3921
MOLAR RATIO OF APO-GLN-I TO APO-GLN-II OF HDL 4005
RAT HIGH DENSITY LIPOPROTEIN CATABOLISM 4914
CONFORMATION STABILITY OF POLYPEPTIDES FROM HUMAN HOLO-HDL 6013
SELF-ASSOCIATION OF RHESUS MONKEY APOLIPOPROTEIN A-I 7437
KINETICS OF PYRENE EXCHANGE BETWEEN LIPOPROTEINS 7952
HIGH POTENTIAL IRON PROTEIN
SEE ALSO IRON-SULFUR PROTEINS
HIPPURATE
GLYCINE + L-GLUTAMINE SPECIFIC ACYL-CO A NIACYLTRANSFERASES 3352
HISTIDINE
ASSIGNMENT OF RNASE NMR RESONANCES 2644
SYNTHESIS OF RIBOSOMAL PROTEINS L7L12 5516
HISTIDINE (IN PROTEINS)
THE PRIMARY STRUCUTRE OF STREPTOCOCCAL PROTEINASE. III 1955
ASSIGNMENT OF RNASE NMR RESONANCES 2644
CONFORMATION OF S-PROTEIN 2648
ESSENTIAL LYSYL RESIDUE IN ALDOLASE 3457
ETHOXYFORMYLATION OF SARCOPLASMIC RETICULUM VESICLES 4322
HISTIDINOL PHOSPHATE
AROMATIC AMINOTRANSFERASES IN BACILLUS SUBTILIS 6974
HISTOCOMPATIBILITY ANTIGENS
CHEMICAL ANALYSES OF HLA-ANTIGENS 4214
CHEMISTRY OF CHICKEN MAJOR HISTOCOMPATIBILITY ANTIGENS 5391
IMMUNOADSORBENT PURIFICATION OF HLA ANTIGEN 5427
HISTONE PHOSPHATASE
PHOSPHOPROTEIN PHOSPHATE(S) 4858
HISTONES
PROPERTIES OF CYTOSOL AND MEMBRANE-DERIVED PROTEIN KINASES 2192
INTERACTION OF HISTONE F1 WITH SUPERHELICAL DNA 2334
CELL-CYCLE-SPECIFIC PHOSPHORYLATION SITES OF HISTONE F1 3685
PHOSPHORYLATION BY BOVINE BRAIN PROTEIN KINASE 3993
HISTONES OF NEUROSPORA CRASSA 4131
CYSTEINE-CONTAINING H2B-LIKE HISTONE IN MAMMALIAN TESTIS 4155
EFFECTS OF ESTROGEN ON GENE EXPRESSION ROLE OF NONHISTONE 4713
PROTEIN A24 NH2- AND COOH-TERMINAL SEQUENCE 5901
SITES IN HISTONES PHOSPHORYLATED BY PROTEIN KINASES 6287
H5 HISTONE AND DNA-RELAXING ENZYME OF CHICKEN ERYTHROCYTES 7363
HLA-ANTIGENS
CHEMICAL ANALYSES OF HLA-ANTIGENS 4214
CHEMISTRY OF CHICKEN MAJOR HISTOCOMPATIBILITY ANTIGENS 5391
IMMUNOADSORBENT PURIFICATION OF HLA ANTIGEN 5427
HMG CO A REDUCTASE
SEE ALSO HYDROXYMETHYLGLUTARYL CO A REDUCTASE
HOFMEISTER SERIES
SUBUNIT INTERACTIONS OF BLACK-EYED PEA PROTEIN INHIBITORS 747
HOMOLINOLENATE
OXYGENATION OF UNSATURATED FATTY ACIDS IN RABBIT LEUKOCYTES 7816
HORMONES
SEE ALSO AUXINS
SEE ALSO ENZYMES, REGULATION IN VIVO (ANIMAL)
SEE ALSO SPECIFIC HORMONES
HORSERADISH
OXIDATION OF P-CRESOL BY HORSERADISH PEROXIDASE COMPOUND I 6036
A PH-DEPENDENT STOICHIOMETRY WITH HORSERADISH PEROXIDASE 6043
HORSESHOE CRAB
LIMULUS HEMOCYANINS 7644
HTC CELLS
SEE ALSO HEPATOMA CELLS
HYALURONATE
GLUCOSE EFFECT ON KINETICS OF MUCOPOLYSACCHARIDE SYNTHESIS 6210
GLYCOSAMINOGLYCAN BIOSYNTHESIS DURING CORNEAL DEVELOPMENT 6513
HYALURONIC ACID
CHONDROITINASE C 1154
HYALURONIDASE
CORRECTION TO YANG + SRIVASTAVA VOL. 250 (1975) P.79 1531
HYBRID PROTEINS
TRYPTOPHAN SYNTHETASE OF PROTEUS MIRABILIS 3875
HYBRIDIZATION
SEE ALSO CELL HYBRIDIZATION
SEE ALSO DNA
SEE ALSO PROTEIN, SUBUNITS
SEE ALSO RNA
IMPORTANCE OF FULL-SIZE CDNA IN NUCLEIC ACID HYBRIDIZATION 3425
SUBSTANTIAL PURIFICATION OF THE OVALBUMIN CODING DNA STRAND 3868
HYDRIDE ION TRANSLOCATION
SEE ALSO TRANSHYDROGENASE
HYDROCORTISONE
SEE ALSO CORTICOSTEROIDS
HYDROGEN EXCHANGE
HYDROGEN EXCHANGE IN REDUCED PYRIDINE NUCLEOTIDES 1785
ASSIGNMENT OF RNASE NMR RESONANCES 2644
HYDROGEN ION
SEE ALSO PH
SEE ALSO PROTON GRADIENTS
HYDROGEN IONS
PROTON INTERACTIONS OF FERRITIN AND APOFERRITIN 6963
HYDROGEN PEROXIDE
SEE ALSO SUPEROXIDE DISMUTASE
ACTIVATION OF RAT LUNG GUANYLATE CYCLASE BY INCUBATION 7304
HYDROGEN TRANSFER
STEREOSPECIFICITY IN SPHINGANINE 1-PHOSPHATE LYASE REACTION 4448
HYDROGENATION
CELL-FREE HYDROGENATION OF CIS-9, TRANS-11-OCTADECADIENOATE 2241
HYDROPHILE-LIPOPHILE BALANCE
THE INFLUENCE OF HLB AND CMC ON DISRUPTION OF MEMBRANES 4442
HYDROPHOBIC INTERACTIONS
SEE ALSO PROTEIN, CONFORMATION
SEE ALSO PROTEIN, SUBUNITS
HYDROPHOBIC PEPTIDES
BINDING OF URACIL DERIVATIVES TO HYDROPHOBIC PEPTIDES 6924
HYDROPHOBICITY
HYDROPHOBIC INTERACTION OF INTERFERONS WITH HYDROCARBONS 7628
HYDROXY VITAMIN D
SEE ALSO VITAMIN D
HYDROXY-ACETYLAMINOFLUORENE
RAT LIVER N-HYDROXY-2-ACETYLAMINOFLUORENE SULFOTRANSFERASE 6529
HYDROXY-4-PREGNEN-3-ONE
5-ALPHA-REDUCTASE IN FIBROBLASTS 5895
HYDROXYANTHRANILIC ACID OXYGENASE
PURIFICATION OF KIDNEY 3-HYDROXYANTHRANILIC ACID OXYGENASE 368
HYDROXYBENZOATE
P-OH-BENZOATE HYDROXYLASE MECHANISM WITH P-MERCAPTOBENZOATE 7367
HYDROXYBENZOATE HYDROXYLASE
FLAVIN-OXYGEN DERIVATIVES IN FLAVOENZYME HYDROXYLATION 2550
HYDROXYBENZYLPINDOLOL
BETA-ADRENERGIC RECEPTORS OF CULTURED CELLS 1221
IODINATED BETA-ADRENERGIC BLOCKER 1232
BETA-ADRENERGIC RECEPTOR INTERACTIONS 1239
REFRACTORINESS BY ISOPROTERENOL IN MUTANT CELLS 7572
HYDROXYBUTYRATE
STOICHIOMETRY OF PROTON EJECTION DURING CALCIUM UPTAKE 968
HYDROXYCALCIFEROL
SEE ALSO VITAMIN D
HYDROXYCHOLECALCIFEROL
SEE ALSO VITAMIN D
HYDROXYCHOLESTEROL
SEE ALSO CHOLESTEROL
REGULATION OF HMG CO A REDUCTASE IN HTC CELLS 1745
HYDROXYETHYLTHIAMIN
CARBON-13 MAGNETIC RESONANCE STUDIES OF HYDROXYETHYLTHIAMIN 2564
HYDROXYLASES
SEE ALSO CYTOCHROME P 450
SEE ALSO HYDROXYLATION
SEE ALSO OXYGENASES
SEE ALSO SPECIFIC HYDROXYLASES
VITAMIN D2 HYDROXYLASES 24
L-3,4-DEHYDROPROLINE AND COLLAGEN METABOLISM 503
FLAVIN-OXYGEN DERIVATIVES IN FLAVOENZYME HYDROXYLATION 2550
25-HYDROXYVITAMIN D3-1-ALPHA-HYDROXYLASE 3158
STEREOSPECIFIC BINDING TO TCDD BY HEPATIC CYTOSOL 4936
P-OH-BENZOATE HYDROXYLASE MECHANISM WITH P-MERCAPTOBENZOATE 7367
HYDROXYLATION
SEE ALSO CYTOCHROME P 450
SEE ALSO HYDROXYLASES
SEE ALSO OXYGENASES
SEE ALSO SPECIFIC HYDROXYLASES
BILE ALCOHOL METABOLISM IN RABBIT LIVER 2789
ANILINE-OXYHEMOGLOBIN INTERACTION 3442
BIOSYNTHESIS OF CHOLIC ACID 3495
THYROID HORMONES AND BRAIN FATTY ACID ALPHA HYDROXYLATION 5237
TRIPLE HELIX MAY FORM BETWEEN POLYSOME-BOUND COLLAGEN CHAINS 7137
ADRENODOXIN REDUCTASE ADRENODOXIN 1 1 COMPLEX+ PROPERTIES 7545
HYDROXYLYSINE
SEE ALSO COLLAGEN
HYDROXYLYSINE (IN PROTEINS)
SUBUNIT COMPOSITION OF THE GLOMERULAR BASEMENT MEMBRANE 4862
HYDROXYMERCURIBENZOATE
SEE ALSO SULFHYDRYLS
HYDROXYMETHYLCYTOSINE
DEGRADATION OF DNA CONTAINING 5-HYDROXYMETHYLCYTOSINE 1561
HYDROXYMETHYLGLUTARYL CO A REDUCTASE
REGULATION OF HMG CO A REDUCTASE IN HTC CELLS 1745
INTERACTION OF SWINE LIPOPROTEINS WITH THE LDL RECEPTOR 2395
PURIFICATION OF 3-HYDROXY-3-METHYLGLUTARYL CO A REDUCTASE 3815
DISSOCIATION OF HMG-CO A REDUCTASE ACTIVITY 3831
CORRECTION TO BERSOT ET AL VOL. 251 (1976) P. 2395 3838
MICHAELIS-MENTEN CONSTANT FOR HMG-CO A REDUCTASE 5820
HYDROXYPHENYLAZOURACIL
DNA POLYMERASE III FROM BACILLUS SUBTILIS 1311
HYDROXYPROLINE
SEE ALSO COLLAGEN
HYDROXYPROLINE (IN PROTEINS)
SUBUNIT COMPOSITION OF THE GLOMERULAR BASEMENT MEMBRANE 4862
HYDROXYPROSTAGLANDIN
SEE ALSO PROSTAGLANDIN
HYDROXYPYRUVALDEHYDE
OXIDATION OF TRANSALDOLASE INTERMEDIATE 4220
HYDROXYPYRUVATE
C13 NMR STUDY-NONENZYMATIC REACTIONS OF PLP WITH AMINO ACIDS 7661
HYDROXYQUINOLINE
REVERSIBLE RESOLUTION OF A MANGANIC SUPEROXIDE DISMUTASE 1217
CORRECTION TO OSE AND FRIDOVICH VOL. 251 (1976) P. 1217 4796
HYDROXYSTEROID DEHYDROGENASE
PLACENTAL 3BETA-OH-STEROID DEHYDROGENASE DELTA-5 ISOMERASE 1632
HYDROXYSTEROID OXIDO-REDUCTASE
BINDING PROPERTIES OF ANDROGEN RECEPTORS 5620
HYPERCHOLESTEROLEMIA
SEE ALSO CHOLESTEROL
HYPERLIPOPROTEINEMIA
SEE ALSO LIPOPROTEINS
HYPOCHLORITE
CHLORIDE PEROXIDATION BY MYELOPEROXIDASE 1371
CORRECTION TO HARRISON + SCHULTZ VOL. 251 (1976) P. 1371 3197
HYPOPHYSECTOMY
SEE ALSO PITUITARY
EFFECT OF HYPOPHYSECTOMY ON ALBUMIN SYNTHESIS 3768
HYPOPHYSIS
SEE ALSO PITUITARY
HYPOTHALAMIC PEPTIDES
RADIOIMMUNOASSAY FOR NEUROTENSIN 7035
HYPOTHALAMUS
CHARACTERIZATION OF PORCINE NEUROPHYSIN III 2735
TRH METABOLISM BY HAMSTER HYPOTHALAMUS 3229
ANDROGEN RECEPTORS IN RAT BRAIN 4047
HYPOXANTHINE
LIVER PURINE NUCLEOSIDE PHOSPHORYLASE 407
ENZYMES INVOLVED IN VESICLE TRANSPORT 1181
HYPOXANTHINE TRANSPORT BY CHINESE HAMSTER FIBROBLASTS 4823
HYPOXIA
SEE ALSO ANAEROBIOSIS
HYSTERESIS
PHOSPHORYLASE KINASE AUTOPHOSPHORYLATION AND SUBSTRATES 7480
PH-DEPENDENT EFFECTS OF CR(NH3)2ATP ON HEXOKINASE KINETICS 7521

I

ICE
RAMAN SPECTRA OF AN ANTIFREEZE GLYCOPROTEIN 2290
IDP
LATENCY OF INOSINE 5-PRIME-DIPHOSPHATASE 7821
IGUANA IGUANA
IGUANA 5 S RNA NUCLEOTIDE SEQUENCE 6352
IMIDAZOLES
SEE ALSO HEMOGLOBIN
SEE ALSO HISTIDINE
IMMUNOABSORPTION
HUMAN SPLEEN RIBONUCLEASE PURIFICAITON BY IMMUNOABSORPTION 5752
IMMUNOADSORPTION
INTESTINAL NEUROTENSIN 7053
IMMUNOASSAYS
FLUORESCENT IMMUNOCHEMICAL METHOD EMPLOYING ENERGY TRANSFER 4172
IMMUNOCHEMISTRY
LYSOZYME DERIVATIVE MODIFIED AT TRYPTOPHAN 123 1653
ANTIGENIC STRUCTURE OF SERUM ALBUMIN 4616
COMPARISON OF PURIFIED MURINE LEUKEMIA VIRUS GLYCOPROTEINS 6197
IMMUNOCHEMISTRY OF THE SUBUNITS OF TRANSCARBOXYLASE 7621
IMMUNODEFICIENCY DISEASE
PURIFICATION OF HUMAN ERYTHROCYTE ADENOSINE DEAMINASE 4826
IMMUNOGLOBULINS
BOVINE SECRETORY COMPONENT ISOLATION AND CHARACTERIZATION 1969
DIFFERENTIATION OF LYMPHOID CELLS 2469
FLUORESCENT IMMUNOCHEMICAL METHOD EMPLOYING ENERGY TRANSFER 4172
CHEMICAL ANALYSES OF HLA-ANTIGENS 4214
A3 IMMUNOPEPTIDE 6798
IMMUNOLOGY
SEE ALSO ANTIBODIES
STRUCTURE OF HIGH DENSITY LIPOPROTEINS 3921
SUBSTRATE-INDUCED ALTERATIONS IN HUMAN CARBONIC ANHYDRASE B 4867
LYMPHOCYTE CYCLIC AMP PHOSPHODIESTERASE 4922
IMMUNOPRECIPITATION
REGULATION OF FOLATE REDUCTASE SYNTHESIS IN SARCOMA 180 CELL 6987
CREATINE KINASE AS A CONTAMINANT OF MUSCLE TROPONIN 7401
ISOLATION OF RAT LIVER ALBUMIN MESSENGER RNA 7461
IMMUNOSORPTION
IMMUNOSORPTION OF MICROTUBULE PROTEIN 6135
IMMUNOTITRATION
PROPERTIES OF PHENYLALANINE HYDROXYLASE OF H4-II-E-C3 CELLS 6901
IMP
IMP-P(NH)P INHIBITION OF ATPASE 6705
REGULATION OF DE NOVO PURINE SYNTHESIS IN HUMAN LYMPHOBLASTS 7348
IMP-P(NH)P
IMP-P(NH)P INHIBITION OF ATPASE 6705
INDOLE-ACETALDEHYDE
INDOLE-3-ACETALDEHYDE REDUCTASES 907
INDOLE-ACETATE
GLYCINE + L-GLUTAMINE SPECIFIC ACYL-CO A NIACYLTRANSFERASES 3352
INDOLE-ACETYLGLUTAMINE
GLYCINE + L-GLUTAMINE SPECIFIC ACYL-CO A NIACYLTRANSFERASES 3352
INDOLE-ETHANOL
INDOLE-3-ACETALDEHYDE REDUCTASES 907
INDOMETHACIN
PROSTAGLANDIN BIOSYNTHESIS AND VASOACTIVE SUBSTANCES 776
PROSTAGLANDIN ENDOPEROXIDE SYNTHETASE 2629
STIMULATION OF PROSTAGLANDIN SYNTHESIS 5814
INDUCTION
SEE ALSO ENZYMES, REGULATION IN VIVO
INFLAMMATION
COLLAGEN SYNTHESIS BY GINGIVA FIBROBLASTS 5464
INITIATION FACTORS
SEE ALSO PROTEIN, SYNTHESIS
SPECIFIC BINDING OF IF-2 (E. COLI) TO FMET-TRNA 137
CHARACTERIZATION OF EIF-3 1926
TRANSLATION SPECIFICITY OF BACTERIAL RIBOSOMES AND MRNA 2499
INTERACTION OF BACTERIAL IF-2 WITH INITIATOR TRNA 3338
PURIFICATION OF INITIATION FACTORS M2B-ALPHA + M2B-BETA 5551
SPECIFICITY IN THE INITIATION OF GLOBIN MRNA TRANSLATION 5718
WHEAT GERM 80S RIBOSOME METHIONYL-TRNA COMPLEX 6075
PHOSPHORYLATION OF EUKARYOTIC INITIATION FACTORS 6471
INITIATION FACTOR IF-E2 FROM RABBIT RETICULOCYTES 7675
CROSS-LINKING OF IF2 TO RIBOSOMAL PROTEINS L7/L12 7779
INOSINATE
SEE ALSO IMP
INOSINE
GROUP TRANSLOCATION OF INOSINE RIBOSE MOIETY BY SV-3T3 CELLS 344
ENZYMES INVOLVED IN VESICLE TRANSPORT 1181
INHIBITION OF PP-RIBOSE-P-SYNTHESIS BY PURINE NUCLEOSIDES 5839
INOSITOL
COMPOSITION AND STRUCTURE OF LIPOPHOSPHONOGLYCAN 2976
HIGH CONCENTRATIONS OF MYO-INOSITOL STIMULATE SECRETION 5076
LIPID ACCUMULATION IN YEAST DUE TO INOSITOL DEFICIENCY 5759
PHOSPHOLIPID INHIBITION OF GLYCOLYSIS IN BRAIN 7149
INOSITOL HEXAPHOSPHATE
SEE ALSO HEMOGLOBIN
PHOSPHATE BINDING TO HEMOGLOBIN 447
RESONANCES OF 13-CO2 CARBAMINO ADDUCTS OF HEMOGLOBIN 477
INTERACTION OF CARBOXYHEMOGLOBIN AND INOSITOL HEXAPHOSPHATE 4763
INTERACTION OF ORGANOPHOSPHATES WITH HEMOGLOBINS 6815
ORGANIC PHOSPHATES AND METHEMOGLOBIN REDUCTION BY ASCORBATE 7494
BINDING OF INOSITOL HEXAPHOSPHATE TO DEOXYHEMOGLOBIN 7720
FORMATION OF DEOXYHEMOGLOBIN 7871
INSECTS
SUBUNIT STRUCTURE OF BOMBYX MORI RNA POLYMERASE III 3794
M. SEXTA JUVENILE HORMONE CARRIER PROTEIN 4979
INSTRUCTIONS TO AUTHORS
INSTRUCTIONS TO AUTHORS 1
DOCUMENTATION OF PROTEIN SEQUENCES 11
RECOMMENDATIONS FOR PRESENTING BIOCHEMICAL EQUILIBRIUM DATA 6879
INSULIN
HEPATIC LIPID METABOLISM IN EXPERIMENTAL DIABETES 13
INSULIN ACTION ON METHYLGLUCOSE EXCHANGE IN FAT CELLS 794
SULFHYDRYL AGENTS AND FAT CELL HEXOSE TRANSPORT 1164
HORMONAL CONTROL OF GLYCOGEN METABOLISM IN FETAL HEPATOCYTES 1431
EFFECT OF INSULIN ON FATTY ACID CO A LIGASE 1488
HORMONAL CONTROL OF PROTEIN PHOSPHORYLATION IN FAT CELLS 1511
ORNITHINE DECARBOXYLASE DURING DEVELOPMENT OF MAMMARY GLAND 1738
THE NEGATIVE COOPERATIVITY OF INSULIN RECEPTORS 1877
GLYCOGEN METABOLISM IN ASTROCYTOMA AND NEUROBLASTOMA CELLS 2015
CORRECTION TO ELSAS ET AL VOL. 250 (1975) P. 9381 2539
BINDING AND DEGRADATION OF INSULIN BY HUMAN GRANULOCYTES 2761
POLYAMINE TRANSPORT IN MAMMARY GLAND 2795
CYCLIC GMP, CA2-PLUS AND GLYCOGENOLYSIS BY LIVER CELLS 2987
INDUCTION OF TRANSPORT IN CULTURED LIVER CELLS BY INSULIN 3614
MALIC ENZYME SYNTHESIS IN CULTURE 3627
CORRECTION TO OKA + PERRY VOL. 251 (1976) P. 1738 3520
REGULATION OF PHOSPHOENOLPYRUVATE CARBOXYKINASE DEGRADATION 3586
REGULATION OF HEPATIC PYRUVATE KINASE 3756
CALCIUM BINDING TO ADIPOCYTE PLASMA MEMBRANES 5345
SOLUBILIZED NGF RECEPTORS 5680
INSULIN RELEASE METABOLISM OF GLUCOSE ANOMERS IN ISLETS 5936
CARNITINE AND NEONATAL KETOSIS 6007
GLUCOSE METABOLISM AND N-CELL FUNCTION IN VITRO 6053
INSULIN BINDING TO CHICK EMBRYO FIBROBLASTS 6445
CORRECTION TO DEMEYTS ET AL VOL. 251 (1976) P. 1877 6479
INSULIN EFFECTS ON HEART GLYCOGEN SYNTHASE PHOSPHATASE 6724
HORMONE RECEPTORS MICROFILAMENT MICROTUBULE MODIFIER EFFECTS 6844
THE ENDOPEPTIDASE POST-PROLINE CLEAVING ENZYME 7593
HORMONAL CONTROL OF DIHYDROXYACETONE AND GLYCEROL METABOLISM 7841
INTERCONVERTIBLE MOLECULAR SPECIES
LIGAND-INDUCED ALTERATIONS IN AMIDOPHOSPHORIBOSYLTRANSFERASE 2234
INTERFERON
DISPENSABILITY OF CARBOHYDRATE MOIETY IN INTERFERON ACTIVITY 1659
PURIFICATION OF HUMAN LEUKOCYTE INTERFERON COMPONENTS 4818
BINDING OF INTERFERONS TO IMMOBILIZED AROMATIC AMINO ACIDS 5381
HYDROPHOBIC INTERACTION OF INTERFERONS WITH HYDROCARBONS 7628
INTESTINES
SYNTHESIS AND METABOLISM OF TRITIATED HYDROXY VITAMIN D-3 1828
METABOLISM OF 1-ALPHA-HYDROXYVITAMIN D3 1829
ALPHA-FUCOPYRANOSYL-CERAMIDE 2385
1-ALPHA, 25-DIHYDROXYVITAMIN D3-STIMULATED TEMPLATE ACTIVITY 2388
25-HYDROXYVITAMIN D3-1-ALPHA-HYDROXYLASE 3158
PURIFICATION OF INTESTINAL BRUSH BORDER MEMBRANE PEPTIDASES 3199
PROPERTIES OF INTESTINAL BRUSH BORDER MEMBRANE PEPTIDASES 3206
AA SEQUENCE OF ACTIVE SITE PEPTIDES FROM SUCRASE-ISOMALTASE 3250
BINDING OF VASOACTIVE INTESTINAL PEPTIDE 4629
UPTAKE OF VITAMIN A TO TISSUE CELLS 6360
DISTRIBUTION OF NEUROTENSIN 7845
INTESTINAL NEUROTENSIN 7853
INVERTEBRATES
SEE ALSO WORMS
KINETICS OF THE MEMERYTHRIN-OXYGEN INTERACTION 2339
HETERONEMERTINE POLYPEPTIDE NEUROTOXINS 4184
IODIDE
ENZYMATIC RING HYDROLYSIS OF 5-IODO-5,6-DIHYDROURACIL 6989
IODINATED ANTISERUM
ANTISERUM MONOSPECIFIC TO HEPATIC ORNITHINE DECARBOXYLASE 1781
CORRECTION TO THEOHARIDES ET AL VOL. 251 (1976) P. 1781 3520
IODINATION
PROPERTIES OF SYNTHETIC PARATHYROID HORMONE ANALOGUES 159
TURNOVER OF THE PLASMA MEMBRANE PROTEINS OF HTC CELLS 872
CORRECTION TO HELLER VOL. 250 (1975) P. 3613 985
LOCATION OF MITOCHONDRIAL PROTEINS BY LABELING REAGENTS 1354
THYROID PEROXIDASE AND NONIONIC DETERGENTS 2525
STRUCTURE OF HIGH DENSITY LIPOPROTEINS 3921
ARRANGEMENT OF 95,000-DALTON PEPTIDE IN RED CELL MEMBRANE 5115
SOLUBILIZED NGF RECEPTORS 5680
CARBON 13 NMR STUDY OF REACTION OF LYSOZYME WITH IODINE 6522
IODINE
SEE ALSO THYROGLOBULIN
SEE ALSO THYROXINE
SEE ALSO TRIIODOTHYRONINE
PH-DEPENDENT PROPERTIES OF HUMAN CARBONIC ANHYDRASE B 3862
IODO-5-AMINO-2,5-DIDEOXYURIDINE-5 N-TRIPHOSPHATE
BIOCHEMICAL PROPERTIES OF IODO-AMINO-DEOXY UTP 4839
IODO-5-PRIME-AMINO-2-PRIME-5-PRIME-DIDEOXYURIDINE
HERPES VIRUS-INDUCED INCORPORATION OF AIDURD INTO DNA 4833
IODOACETAMIDE
SEE ALSO SULFHYDRYLS (IN PROTEINS)
IODOACETATE
SEE ALSO CYSTEINE
SEE ALSO PROTEIN, MODIFICATION
SEE ALSO SULFHYDRYLS
IODODEOXYAZAURIDINE
UV SENSITIZATION OF DTMP KINASE BY HALOGENATED ANALOGS 6555
IODODEOXYURIDINE
UV SENSITIZATION OF DTMP KINASE BY HALOGENATED ANALOGS 6555
IODODIHYDROURACIL
ENZYMATIC RING HYDROLYSIS OF 5-IODO-5,6-DIHYDROURACIL 6989
ION TRANSPORT
SEE ALSO TRANSPORT, ION
ION-BINDING
PROTON INTERACTIONS OF FERRITIN AND APOFERRITIN 6963
IONIC STRENGTH
SEE ALSO POTASSIUM
SEE ALSO SODIUM
STABILITY AND ACTIVITY OF ISOPROPYLMALATE ISOMERASE 3545
RNASE III CLEAVAGE OF SINGLE-STRANDED RNA 3887
IONOPHORES
SEE ALSO TRANSPORT
PHOSPHOLIPIDS AS IONOPHORES 1326
SIDEDNESS OF MEMBRANE PHOSPHORYLATION DURING ATP SYNTHESIS 1413
CYCLIC GMP, CA2-PLUS AND GLYCOGENOLYSIS BY LIVER CELLS 2987
A23187 INCREASES POTASSIUM PERMEABILITY OF ERYTHROCYTES 3480
CELLULAR ACTION OF A23187--(SPERM) CALCIUM TRANSPORT) 3881
CA++-IONOPHORE ACTIVITY IN ATPASE FRAGMENT 4147
IONOPHORE A23187 ALTERS ERYTHROCYTE PHOSPHOLIPID METABOLISM 4162
CYCLIC GMP IN PANCREATIC ACINAR CELLS 4640
HORMONE-SENSITIVE RESEALED GHOSTS 4930
CATION EFFECTS ON STEADY STATE MITOCHONDRIAL CALCIUM UPTAKE 5251
PURIFICATION OF A TOXIC PROTEIN FROM SCORPION VENOM 5528
CYCLIC NUCLEOTIDE PHOSPHODIESTERASE SECRETION FROM PLATELETS 7588
IRON
SEE ALSO CYTOCHROME
SEE ALSO FERRITIN
SEE ALSO HEME
SEE ALSO HEMOGLOBIN
SEE ALSO IRON-SULFUR PROTEINS
PURIFICATION OF KIDNEY 3-HYDROXYANTHRANILIC ACID OXYGENASE 368
INACTIVATION OF PHOSPHORYLASE B BY POTASSIUM FERRATE 1553
CELL-FREE HYDROGENATION OF CIS-9, TRANS-11-OCTADECADIENOATE 2241
KINETICS OF THE HEMERYTHRIN-OXYGEN INTERACTION 2339
GLUTAMINE-DEPENDENT GLUTAMATE SYNTHASE 3294
APOGLUTAMATE SYNTHASE AND GLUTAMATE DEHYDROGENASE 3388
THIOL GROUP AND FE+++ REQUIREMENT FOR UTERINE PHOSPHATASE 4688
IRON SUPEROXIDE DISMUTASE FROM E. COLI 5472
PURIFICATION OF PROSTAGLANDIN-FORMING CYCLOOXYGENASE 5575
PROPERTIES OF 2-NITROPROPANE DIOXYGENASE 6994
SPECTRAL AND EPR STUDIES ON ROLE OF IRON IN LIPOXYGENASE 7144
IRON-HEXACYANIDES
1-ELECTRON REDOX REACTIONS BY FAST PULSE CYT-C/FERRICYANIDE 4336
IRON-SULFUR PROTEINS
SEE ALSO FERREDOXIN
AMINO ACID SEQUENCE OF R. GELATINOSA HIPIP 129
SYNTHESIS OF C. ACIDI-URICI FERREDOXIN DERIVATIVES 1675
MIDPOINT REDUCTION POTENTIAL OF C. ACIDI-URICI FERREDOXIN 1683
THERMODYNAMICS + EPR CHARACTERISTICS OF FE-S CENTERS OF SDH 2094
A HIPIP-TYPE IRON-SULFUR CENTER IN SUCCINATE DEHYDROGENASE 2105

NITRATE REDUCTASE FROM ESCHERICHIA COLI 2207
15-BETA-HYDROXYLASE SYSTEM IN BACILLUS MEGATERIUM 2631
P.AEROGENES FERREDOXIN STRUCTURE. REFINEMENT AT 2 ANGSTROMS 3801
ADRENODOXIN REDUCTASE ADRENODOXIN 1 1 COMPLEX+ PROPERTIES 7545
IRON, EFFECT ON ENZYME ACTIVITY
METAL(II) ION, ANION EFFECTS ON P-ENOLPYRUVATE CARBOXYKINASE 2916
FE(II) AND P-ENOLPYRUVATE CARBOXYKINASE FERROACTIVATOR 2922
IRRADIATION
SEE ALSO LIGHT
SEE ALSO ULTRAVIOLET
IRREVERSIBLE INHIBITOR
CHLORINATION OF D-AMINO ACID OXIDASE BY N-CHLORO-D-LEUCINE 6150
ISLETS OF LANGERHANS
SEE ALSO INSULIN
SEE ALSO PANCREAS
ISOBUTYRATE
LEUCINE 2,3-AMINOMUTASE, AN ENZYME OF LEUCINE CATABOLISM 1859
ISOCYANATE
METHYLISOCYANATE AS AN ANTI-SICKLING AGENT 6226
ISOENZYMES
SEE ALSO ISOZYMES
ISOLEUCYL-TRNA SYNTHETASE
AMINOACYL TRANSFER RNA SYNTHETASE-TRANSFER RNA COMPLEX 6823
ISOMALTASE
AA SEQUENCE OF ACTIVE SITE PEPTIDES FROM SUCRASE-ISOMALTASE 3250
ISOPRENOID ALCOHOL PHOSPHOKINASE
PHOSPHOLIPID ACTIVATION OF A PURIFIED MEMBRANE ENZYME 1264
LIPID ACTIVATION OF A MEMBRANE ENZYME. BIOPHYSICAL STUDIES 1270
DETERGENT ACTIVATION OF A PURIFIED MEMBRANE ENZYME 1277
ISOPROPYLMALATE ISOMERASE
STABILITY AND ACTIVITY OF ISOPROPYLMALATE ISOMERASE 3545
ISOPROPYLTHIOGALACTOSIDE
SEE ALSO LACTOSE OPERON
ISOPROTERENOL
SEE ALSO CATECHOLAMINES
CYCLIC GMP, CA2-PLUS AND GLYCOGENOLYSIS BY LIVER CELLS 2987
REFRACTORINESS BY ISOPROTERENOL IN MUTANT CELLS 7572
ISOTOPE EFFECTS
SEE ALSO DEUTERIUM ISOTOPE EFFECTS
ISOZYMES
SEE ALSO PROTEIN, MODIFICATION
SEE ALSO PROTEIN, PHOSPHORYLATION
HORSE LIVER ALDEHYDE DEHYDROGENASE ISOZYMES 236
PROPERTIES OF SUCCINYL CO A 3-KETOACID CO A TRANSFERASE 1708
HUMAN CYTOPLASMIC AND MITOCHONDRIAL DEOXYTHYMIDINE KINASE 2608
CHARACTERIZATION OF KB ALKALINE PHOSPHATASE 2620
MUTATIONS AFFECTING BETA-GLUCOSIDASE IN DICTYOSTELIUM 2680
KINETICS OF GLUCOSE-6-PHOSPHATE DEHYDROGENASE VARIANTS 2993
ACTION OF P-CHLOROPHENYLALANINE OF PHENYLALANINE HYDROXYLASE 3677
SEPARATION OF DIFFERENT MYOSINS BY ATP AND ACTIN COLUMNS 3972
PURIFICATION OF HUMAN ERYTHROCYTE ADENOSINE DEAMINASE 4026
CTP SYNTHETASE OF CALF LIVER. SIZE, POLYMERIZATION 4372
CATHEPSIN D FROM PORCINE SPLEEN 4528
MULTIPLE FORMS OF MOUSE CYTOCHROME P 450 4659
ALLOSTERIC REGULATION OF HEXOKINASE C FROM AMPHIBIAN LIVER 5035
3-DEOXY-D-ARABINO-HEPTULOSONATE 7-PHOSPHATE SYNTHASE 5448
HUMAN ADENOSINE DEAMINASE 5448
CYCLIC 3-PRIME 5-PRIME-NUCLEOTIDE PHOSPHODIESTERASE 5726
POLYNUCLEOTIDE INHIBITION OF HUMAN LIVER RIBONUCLEASE 5745
EFFECT OF GLYCOSYLATION ON PLASMA HALF-LIFE OF RIBONUCLEASE 6616
PROPERTIES OF PHENYLALANINE HYDROXYLASE OF H4-II-E-C3 CELLS 6901
ITP
ATP-DEPENDENT PROPERTIES OF MITOCHONDRIA 934
NTP PI EXCHANGE IN SARCOPLASMIC RETICULUM VESICLES 3629
PHOSPHORYLATION OF THE SARCOPLASMIC RETICULUM MEMBRANE 6355
IMP-P(NH)P INHIBITION OF ATPASE 6705

J

JACK BEAN
SEE ALSO CONCANAVALIN A
JUVENILE HORMONE
M. SEXTA JUVENILE HORMONE CARRIER PROTEIN 4979

K

K
SEE ALSO POTASSIUM
KB CELLS
CHARACTERIZATION OF KB ALKALINE PHOSPHATASE 2620
NUCLEAR LOCATION OF MAMMALIAN DNA POLYMERASE ACTIVITIES 7893
KELVIN
RECOMMENDATIONS FOR PRESENTING BIOCHEMICAL EQUILIBRIUM DATA 6879
KERATAN SULFATE
ENDO-BETA-GALACTOSIDASE HYDROLYSIS OF COMPLEX CARBOHYDRATES 6218
GLYCOSAMINOGLYCAN BIOSYNTHESIS DURING CORNEAL DEVELOPMENT 6513
KETOBUTYRATE
ENZYMATIC REACTIONS OF METHIONINE SULFOXIMINE 6674
KETOGENESIS
HEPATIC LIPID METABOLISM IN EXPERIMENTAL DIABETES 13
EFFECT OF HYDROGEN SHUTTLES ON FATTY ACID OXIDATION 277
CARNITINE AND NEONATAL KETOSIS 6087
GLUCOSE AND LACTATE FORMATION FROM PYRUVATE 6189
KETOGLUTARATE
APOGLUTAMATE SYNTHASE AND GLUTAMATE DEHYDROGENASE 3388
KETOISOCAPROATE
LEUCINE 2,3-AMINOMUTASE, AN ENZYME OF LEUCINE CATABOLISM 1859
KETOPANTOATE
PROPERTIES OF KETOPANTOATE HYDROXYMETHYLTRANSFERASE 3786
KETOPANTOATE HYDROXYMETHYLTRANSFERASE
PURIFICATION OF KETOPANTOATE HYDROXYMETHYLTRANSFERASE 3780
PROPERTIES OF KETOPANTOATE HYDROXYMETHYLTRANSFERASE 3786
KIDNEY
PURIFICATION OF KIDNEY 3-HYDROXYANTHRANILIC ACID OXYGENASE 368
STUDIES OF HUMAN KIDNEY GAMMA-GLUTAMYL TRANSPEPTIDASE 2271
NON-STEROL METABOLISM OF MEVALONATE 2716
ISOLATION OF CHICK RENAL MITOCHONDRIAL FERREDOXIN 3933
EFFECTS OF SODIUM AZIDE ON RENAL CORTICAL CGMP 4651
KINETICS OF GAMMA-GLUTAMYL TRANSPEPTIDASE 4736
RENAL METABOLISM OF EXOGENOUS CYCLIC AMP AND CYCLIC GMP 4958
TWO SOLUBLE FORMS OF ADENYLATE CYCLASE 5831
COMPARISON OF OLIGOSACCHARIDE-LIPIDS FROM SEVERAL TISSUES 6420
GANGLIOSIDES OF HUMAN KIDNEY 7517
EFFECT OF T3 ON (NA+, K+)ATPASE SYNTHESIS 7834
PHYSICAL PROPERTIES OF TWO FORMS OF GLUTAMYLTRANSPEPTIDASE 7863
KIDNEY CELLS
PLASMA MEMBRANE IS ORIGIN OF SEMLIKI FOREST VIRUS ENVELOPE 5544
KINASES
SEE ALSO PROTEIN, KINASES
SEE ALSO SPECIFIC KINASES
KINETICS
SEE ALSO ENZYMES, REGULATION
EFFECT OF METALS ON ESCHERICHIA COLI ARGINYL-TRNA SYNTHETASE 241
PURIFICATION OF KIDNEY 3-HYDROXYANTHRANILIC ACID OXYGENASE 368
ZINC-CHLORIDE ION EXCHANGE RATES IN CARBOXYPEPTIDASE A 403
CHYMOTRYPSIN DIMERIZATION 498
HALF-SITE REACTIVITY IN PROTEASE-INHIBITOR COMPLEXES 754
HYDROGEN EXCHANGE IN REDUCED PYRIDINE NUCLEOTIDES 1705
REACTION MECHANISM FOR D-ACETYLSERINE SULFHYDRYLASE 2023
NEW INTERMEDIATE IN MECHANISM OF NA + K ATPASE 2186
A KINETIC STUDY OF GLUCOSE 6-PHOSPHATE DEHYDROGENASE 2258
STUDIES OF HUMAN KIDNEY GAMMA-GLUTAMYL TRANSPEPTIDASE 2271
KINETIC EFFECTS OF CALCIUM ON SARCOPLASMIC RETICULUM ATPASE 2387
KINETICS OF THE HEMERYTHRIN-OXYGEN INTERACTION 2339
SPECIFICITY OF CHYMOTRYPSIN WITH CARBOXYL GROUPS BLOCKED 2353
OXYGEN AND CARBON MONOXIDE KINETICS OF GLYCERA HEMOGLOBIN 2579
BOVINE LENS ALDOSE REDUCTASE, PHYSICAL, KINETIC PROPERTIES 2696
6-PHOSPHOFRUCTOKINASE (PYROPHOSPHATE) 2958
INHIBITION OF FRUCTOSE BISPHOSPHATASE BY SUBSTRATE ANALOGS 2963
KINETICS OF GLUCOSE-6-PHOSPHATE DEHYDROGENASE VARIANTS 2993
KINETIC MECHANISM OF LACTOSE SYNTHASE 3003
COMPARATIVE BINDING AND RATE STUDY OF AMP NUCLEOSIDASE 3417
REGULATION OF ESCHERICHIA COLI GLUTAMINASE B. II 3457
GAMMA-GLUTAMYLCYSTEINE SYNTHETASE 3563
METAL ION ACTIVATION OF GALACTOSYL TRANSFERASE 3645
FRUCTOSE 6-SULFATE AS A SUBSTRATE OF PHOSPHOFRUCTOKINASE 3664
RATE-LIMITING STEPS FOR ALDEHYDE DEHYDROGENASE REACTIONS 3853
SPECIFICITY OF DEOXYCYTIDINE KINASE 4055
GUANYLATE CYCLASE PURIFICATION 4071
RNA POLYMERASE FROM VESICULAR STOMATITIS VIRUS 4307
1-ELECTRON REDOX REACTIONS BY FAST PULSE CYT-C/FERRICYANIDE 4336
STEADY-STATE KINETICS OF PENICILLIUM ATP SULFURYLASE 4389
ACP METABOLISM AND REGULATION IN LACTOBACILLUS 4706
CARBOXAMIDOMETHYL ESTER SUBSTRATES FOR CHYMOTRYPSIN 4722
KINETICS OF GAMMA-GLUTAMYL TRANSPEPTIDASE 4736
CATION EFFECTS ON STEADY STATE MITOCHONDRIAL CALCIUM UPTAKE 5251
REACTIVITY OF PHOSPHOPYRIDOXAL IN CYSTATHIONASE 5267
MECHANISM OF ATP HYDROLYSIS BY SARCOPLASMIC RETICULUM 5414
3-DEOXY-D-ARABINO-HEPTULOSONATE 7-PHOSPHATE SYNTHASE 5448
PH INDUCED STRUCTURAL CHANGES IN PHOSPHOFRUCTOKINASE 5630
PH INDUCED REGULATORY KINETICS OF PHOSPHOFRUCTOKINASE 5644
CYCLIC 3-PRIME 5-PRIME-NUCLEOTIDE PHOSPHODIESTERASE 5726
MICHAELIS-MENTEN CONSTANT FOR HMG-CO A REDUCTASE 5820
KINETIC AND IMMUNOLOGICAL STUDY OF NADH DEHYDROGENASE 5921
KINETICS OF LINOLEATE OXYGENATION BY SOYBEAN LIPOXYGENASE 6081
OXIDATION OF P-CRESOL BY HORSERADISH PEROXIDASE COMPOUND I 6036
A PH-DEPENDENT STOICHIOMETRY WITH HORSERADISH PEROXIDASE 6043
CHLORINATION OF D-AMINO ACID OXIDASE BY N-CHLORO-D-LEUCINE 6150
KINETIC ANALYSIS OF DIFFERENTIATION IN D. DISCOIDEUM 6252
STUDIES ON THE FOURTH STEP IN LIGAND BINDING TO HEMOGLOBIN 6692
IMP-P(NH)P INHIBITION OF ATPASE 6705
KINETIC STUDY OF ESCHERICHIA COLI ACETATE KINASE MECHANISM 6775
PHOSPHOROUS MAGNETIC RESONANCE STUDY OF ARGININE KINASE 6981
PH-DEPENDENT EFFECTS OF CR(NH3)2ATP ON HEXOKINASE KINETICS 7521
PH-DEPENDENT EFFECTS OF CR(NH3)2ATP ON HEXOKINASE KINETICS 7521
AMINOACYL-TRNA SYNTHETASES. THE RATE-DETERMINING STEP 7717
LATENCY OF INOSINE 5-PRIME-DIPHOSPHATASE 7621
A NONCLASSICAL TRI UNI UNI PING PONG MECHANISM 7920
KININASE II
HOMOLOGY OF PULMONARY ANGIOTENSIN-CONVERTING ENZYMES 4828
KIRROMYCIN
EFFECT OF EF-TU INHIBITORS ON Q-BETA REPLICASE RENATURATION 2749
KLEBSIELLA AEROGENES
L-ASPARAGINASE OF KLEBSIELLA AEROGENES 2722
KLEBSIELLA PNEUMONIAE
SUBUNIT STRUCTURE AND CHEMICAL COMPOSITION OF CITRATE LYASE 2911

L

L CELLS
MITOCHONDRIAL DNA SYNTHESIS IN MOUSE L-CELLS 2938
PGE1 RECEPTORS AND ADENYLATE CYCLASE IN CULTURED CELLS 3037
RICIN-RESISTANT MOUSE L CELL LINES 7761
LAC OPERON
SEE ALSO GALACTOSIDASE
SEE ALSO LACTOSE OPERON
LACTALBUMIN
KINETIC MECHANISM OF LACTOSE SYNTHASE 3003
PROTEIN BINDING TO GALACTOSYLTRANSFERASE 3653
LACTATE
OXALACETATE DECARBOXYLASE AND PYRUVATE KINASE ARE THE SAME 61
LACTATE DEHYDROGENASE
HYDROGEN EXCHANGE IN REDUCED PYRIDINE NUCLEOTIDES 1705
NICOTINAMIDE ADENINE DINUCLEOTIDE OXIDATION BY SUPEROXIDE 3841
8-ALKYLAMINOADENYL NUCLEOTIDES AND DEHYDROGENASE BINDING 6791
LACTATE OXIDASE
EFFECT OF LIPIDS ON RECONSTITUTION OF MEMBRANE VESICLES 6662
LACTATION
SEE ALSO MAMMARY GLANDS
BOVINE PLACENTAL LACTOGEN 2703
LACTO-N-NEOTETRAITOL
ENDO-BETA-GALACTOSIDASE HYDROLYSIS OF COMPLEX CARBOHYDRATES 6218
LACTOBACILLUS CASEI
TRANSPORT AND UTILIZATION OF METHYLTETRAHYDROFOLATES 3405
LACTOBACILLUS PLANTARUM
ACP METABOLISM AND REGULATION IN LACTOBACILLUS 4706
LACTOGEN
BIOSYNTHESIS OF HUMAN PLACENTAL LACTOGEN MRNA 820
CELL-FREE SYNTHESIS OF HUMAN PLACENTAL LACTOGEN 1723
BOVINE PLACENTAL LACTOGEN 2703
SYNTHESIS OF HPL AND HCG BY PLACENTAL POLYRIBOSOMES AND MRNA 2945
LACTOPEROXIDASE
SEE ALSO IODINATION
TURNOVER OF THE PLASMA MEMBRANE PROTEINS OF HTC CELLS 872
LOCATION OF MITOCHONDRIAL PROTEINS BY LABELING REAGENTS 1354
LACTOSE
CORRECTION TO SAIER ET AL VOL. 250 (1975) P. 7593 1531
EFFECT OF CRR MUTATION ON REPRESSION OF ENZYME SYNTHESIS 6598
INDUCER EXCLUSION AND REGULATION OF SUGAR TRANSPORT SYSTEMS 6606
GANGLIOSIDES OF HUMAN KIDNEY 7517
LACTOSE OPERON
KINETICS OF INDUCER BINDING TO LAC REPRESSOR PROTEIN 1171
POST-TRANSCRIPTIONAL CONTROL OF BETA-GALACTOSIDASE SYNTHESIS 2854
LAC REPRESSOR QUATERNARY STRUCTURE 3359
LIMITED PROTEOLYTIC DIGESTION OF LAC REPRESSOR 3386
LAC REPRESSOR TRYPTOPHANS 3774
LACTOSE PERMEASE
THIODIGALACTOSIDE BINDNG TO ESCHERICHIA COLI M PROTEIN 6735
LACTOSE SYNTHASE
KINETIC MECHANISM OF LACTOSE SYNTHASE 3003
METAL ION ACTIVATION OF GALACTOSYL TRANSFERASE 3645
PROTEIN BINDING TO GALACTOSYLTRANSFERASE 3653
LAMBDA
SEE ALSO BACTERIOPHAGE LAMBDA

LANOSTEROL
METHYL STEROL OXIDASE 6638
LANTHANUM
LANTHANIDE IONS AND METAL-DEPENDENT PROTHROMBIN ACTIVATION 3235
CALCIUM BINDING TO ADIPOCYTE PLASMA MEMBRANES 5345
ROLE OF GAMMA-CARBOXYGLUTAMIC ACID 6886
LASER
REACTIONS OF RECONSTITUTED MYOGLOBINS WITH O2 AND CO 1418
LASER PHOTOLYSIS
CONFORMATIONAL CHANGES IN MBCO FOLLOWING LASER PHOTOLYSIS 1533
LECITHIN
SEE ALSO PHOSPHOLIPIDS
LECTINS
SEE ALSO AGGLUTININS
SEE ALSO CONCANAVALIN A
SURFACE ALTERATIONS IN PERIODATE-OXIDIZED LYMPHOCYTES 1864
BORATE INACTIVATION OF ANTIFREEZE GLYCOPROTEIN 3033
PROPERTIES OF INTESTINAL BRUSH BORDER MEMBRANE PEPTIDASES 3206
ABRIN AND RICIN BINDING KINETICS WITH HUMAN CELLS 3977
STEPS IN INHIBITION OF PROTEIN SYNTHESIS BY ABRIN AND RICIN 3985
OPPOSING EFFECTS OF LECTINS ON LYMPHOCYTE ACTIVATION 4017
HYBRIDIZATION OF CONCANAVALIN A SUBUNITS 4622
SUBUNIT STRUCTURE OF WISTARIA FLORIBUNDA LECTIN 5686
TWO LECTINS FROM CARAGANA ARBORESCENS SEEDS 5929
PLATELET GLYCOCALICIN II. PURIFICATION 5950
ECTO-ENZYMES OF MAMMARY GLAND AND ITS TUMORS 6173
CALF BETA-GALACTOSIDE BINDING LECTINS 7581
RICIN-RESISTANT MOUSE L CELL LINES 7761
LEGHEMOGLOBIN
LEGHEMOGLOBIN AND ITS COMPLEXES WITH NICOTINATE AND ACETATE 6098
LEISTOMUS XANTHURUS
ROOT EFFECT HEMOGLOBIN OF A MARINE FISH 1871
LENS
LEUCINE AMINOPEPTIDASE. EFFECT OF PH ON BINDING OF METAL ION 53
LEUCINE AMINOPEPTIDASE (BOVINE LENS) COBALT ENZYME 1618
BOVINE LENS ALDOSE REDUCTASE, PHYSICAL, KINETIC PROPERTIES 2696
DELTA-CRYSTALLIN DNA REITERATION FREQUENCY 4294
SUBUNIT COMPOSITION OF EMBRYONIC CHICK LENS S-CRYSTALLIN 4416
LEUCINE
LEUCINE AMINOPEPTIDASE (BOVINE LENS) COBALT ENZYME 1618
LEUCINE 2,3-AMINOMUTASE, AN ENZYME OF LEUCINE CATABOLISM 1859
STABILITY AND ACTIVITY OF ISOPROPYLMALATE ISOMERASE 3545
RAT LIVER + KIDNEY PEROXISOMES. GLYOXYLATE AMINOTRANSFERASE 4408
LEUCINE (IN PROTEINS)
PEPTIDYL TRANSFER RNA DISSOCIATES FROM RIBOSOMES OF E. COLI 3392
LEUCINE AMINOPEPTIDASE
LEUCINE AMINOPEPTIDASE. EFFECT OF PH ON BINDING OF METAL ION 53
LEUCINE PARA-NITROANILIDE
LEUCINE AMINOPEPTIDASE. EFFECT OF PH ON BINDING OF METAL ION 53
LEUCINE TRNA
TRANSFER RNA PRECURSORS FROM ESCHERICHIA COLI 922
LEUCINE 2,3-AMINOMUTASE
LEUCINE 2,3-AMINOMUTASE, AN ENZYME OF LEUCINE CATABOLISM 1859
LEUCINE, BETA
LEUCINE 2,3-AMINOMUTASE, AN ENZYME OF LEUCINE CATABOLISM 1859
LEUCINE, N-CHLORO-D-
CHLORINATION OF D-AMINO ACID OXIDASE BY N-CHLORO-D-LEUCINE 6150
LEUKEMIA CELLS
PROTEINS OF FRIEND LEUKEMIA CELLS 555
HUMAN CYTOPLASMIC AND MITOCHONDRIAL DEOXYTHYMIDINE KINASE 2680
LEUKEMIA VIRUS
RSV AND MULV HIGH MOLECULAR WEIGHT RNAS CONTAIN TWO SUBUNITS 141
PURIFICATION OF ONCORNAVIRUS PROTEINS 559
SEROLOGY OF TERMINAL DEOXYNUCLEOTIDYLTRANSFERASE 2399
STRUCTURAL POLYPEPTIDES OF TYPE-C VIRUS 4859
COMPARISON OF PURIFIED MURINE LEUKEMIA VIRUS GLYCOPROTEINS 6197
LEUKOCYTES
SEE ALSO WHITE BLOOD CELLS
OXYGENATION OF UNSATURATED FATTY ACIDS IN RABBIT LEUKOCYTES 7816
LIGAND BINDING
X-RAY STRUCTURE AND LIGAND BINDING OF PHOSPHORYLASE A 6142
LIGANDIN
A MECHANISM FOR THE GLUTATHIONE TRANSFERASES 6183
LIGASE
SEE ALSO DNA, LIGASE
SEE ALSO DNA, SYNTHESIS
ON THE MECHANISM OF FORMYLTETRAHYDROFOLATE SYNTHETASE 4159
LIGHT
SEE ALSO CHLOROPLASTS
SEE ALSO LUMINESCENCE
SEE ALSO PHOTOPHOSPHORYLATION
SEE ALSO PHOTOSYNTHESIS
SUPEROXIDE MEDIATED METHEMOGLOBIN FORMATION 1615
ACID-INDUCED PHOSPHORYLATION OF BOUND ADP 7417
LIGHT SCATTERING
INTERACTION OF CARBOXYHEMOGLOBIN AND INOSITOL HEXAPHOSPHATE 4763
AGGREGATION OF DEOXYHEMOGLOBINS AT LOW CONCENTRATIONS 7657
LIGNOCERIC ACID
THYROID HORMONES AND BRAIN FATTY ACID ALPHA HYDROXYLATION 5237
LIMULUS POLYPHEMUS
LIMULUS HEMOCYANINS 7644
LINCOMYCIN
MODE OF ACTION OF BOTTROMYCIN A2 2299
LINEAR VELOCITY
SEE ALSO KINETICS
MICHAELIS-MENTEN CONSTANT FOR HMG-CO A REDUCTASE 5828
LINOLEATE
KINETICS OF LINOLEATE OXYGENATION BY SOYBEAN LIPOXYGENASE 6801
SPECTRAL AND EPR STUDIES ON ROLE OF IRON IN LIPOXYGENASE 7144
LINOLEIC ACID ISOMERASE
CELL-FREE HYDROGENATION OF CIS-9, TRANS-11-OCTADECADIENOATE 2241
LIPASES
COFACTOR EFFECTS ON PROPERTIES OF LIPASE B AT AN INTERFACE 378
MECHANISM OF ACTION OF COFACTORS ON LIPASE B ACTIVITY 384
C-AMP ACTIVATION OF ACYL HYDROLASES IN ADIPOSE TISSUE 2882
COMPARATIVE STUDIES OF LIPASE AND PHOSPHOLIPASE A2 3128
RETURN OF LDL RESPONSE IN ACID LIPASE-DEFICIENT FIBROBLASTS 3277
PIG ADIPOSE TISSUE LIPASE 6267
LIPOPROTEIN LIPASE FROM BOVINE MILK 7791
LIPID PEROXIDATION
CCL-4 MEDIATED LIPID PEROXIDATION IN ISOLATED LIVER CELLS 4973
LIPIDS
SEE ALSO GLYCOLIPIDS
SEE ALSO GLYCOSPHINGOLIPIDS
SEE ALSO LIPOPROTEINS
SEE ALSO PHOSPHOLIPIDS
SEE ALSO SPHINGOLIPIDS
HEPATIC LIPID METABOLISM IN EXPERIMENTAL DIABETES 13
BIOSYNTHESIS OF CHONDROITIN SULFATE 285
COFACTOR EFFECTS ON PROPERTIES OF LIPASE B AT AN INTERFACE 378
ACETYLTRANSFERASE FROM C. BOGORIENSIS 424
MONOACYLGLYCEROL-HYDROLYZING ENZYME OF RAT ADIPOSE TISSUE 813
PHOSPHOLIPID ACTIVATION OF A PURIFIED MEMBRANE ENZYME 1264
UTILIZATION OF EXOGENOUS GDP-MANNOSE BY OVIDUCT CELLS 2511
COMPARATIVE STUDIES OF LIPASE AND PHOSPHOLIPASE A2 3128
DISSOCIATION OF HMG-CO A REDUCTASE ACTIVITY 3831
CA++-IONOPHORE ACTIVITY IN ATPASE FRAGMENT 4147
ACYL DIHYDROXYACETONE PHOSPHATE PATHWAY IN BHK FIBROBLASTS 5149
LIPID ACCUMULATION IN YEAST DUE TO INOSITOL DEFICIENCY 5759
DNR OF ANIMAL CELLS 6147
PIG ADIPOSE TISSUE LIPASE 6267
FORMATION OF LIPID-SACCHARIDE INTERMEDIATE BY THYROID SLICES 6400
COMPARISON OF OLIGOSACCHARIDE-LIPIDS FROM SEVERAL TISSUES 6428
PURIFICATION OF THE CARBODIIMIDE-REACTIVE PROTEIN 6638
SPECTRAL AND EPR STUDIES ON ROLE OF IRON IN LIPOXYGENASE 7144
FORMATION OF LIPID-LINKED SUGAR COMPOUNDS IN H. SALINARIUM 7289
UNSATURATED FATTY ACID SYNTHESIS IN TETRAHYMENA 7588
F1 BACTERIOPHAGE COAT PROTEIN AND PHOSPHOLIPID METABOLISM 7739
ROLE OF TRISACCHARIDE-LIPID IN GLYCOSYLATION OF PROTEINS 7882
LIPOAMIDE DEHYDROGENASE
LIPOAMIDE DEHYDROGENASE ACTIVE SITE CYSTEINE REACTIVITIES 3553
A COVALENT FLAVIN ADDUCT IN LIPOAMIDE DEHYDROGENASE 7726
LIPOATE
OXYGENATED CYTOCHROME P 450 1116
LIPOGENESIS
LIPOGENIC DIFFERENTIATION IN CELL CULTURE 6462
LIPOLYSIS
MONOACYLGLYCEROL-HYDROLYZING ENZYME OF RAT ADIPOSE TISSUE 813
EFFECT OF INSULIN ON FATTY ACID CO A LIGASE 1488
FAT CELL CHOLERA TOXIN RECEPTOR 7610
LIPOPHOSPHONOGLYCAN
COMPOSITION AND STRUCTURE OF LIPOPHOSPHONOGLYCAN 2976
LIPOPOLYSACCHARIDES
RECONSTITUTION OF PERMEABILITY CHANNELS 2176
DEACETYLATION ACTIVITY OF SALMONELLA PHAGE C341 5361
LIPOPROTEIN LIPASE
C-AMP ACTIVATION OF ACYL HYDROLASES IN ADIPOSE TISSUE 2882
PIG ADIPOSE TISSUE LIPASE 6267
LIPOPROTEIN LIPASE FROM BOVINE MILK 7791
LIPOPROTEINS
STUDIES ON HUMAN SERUM HIGH DENSITY LIPOPROTEINS 1131
ACTION OF PHOSPHOLIPASE A2 ON HDL3 1984
INTERACTION OF SWINE LIPOPROTEINS WITH THE LDL RECEPTOR 2395
RETURN OF LDL RESPONSE IN ACID LIPASE-DEFICIENT FIBROBLASTS 3277
CONFORMATIONAL PROPERTIES OF APO A-I 3749
ACTION OF PHOSPHOLIPASE A2 ON LOW-DENSITY LIPOPROTEIN-2 3823
CORRECTION TO BERSOT ET AL VOL. 251 (1976) P. 2395 3838
STRUCTURE OF HIGH DENSITY LIPOPROTEINS 3921
MOLAR RATIO OF APO-GLN-I TO APO-GLN-II OF HDL 4005
MEMBRANE PENICILLINASE OF B. LICHENIFORMIS 4095
PHOSPHOLIPOPEPTIDE FROM BACILLUS MEMBRANE PENICILLINASE 4102
RAT HIGH DENSITY LIPOPROTEIN CATABOLISM 4914
PLASMA LIPOPROTEINS AND PROTHROMBIN ACTIVATION 5233
CORRECTION TO AGGEBECK ET AL VOL. 251 (1976) P. 3823 5429
CONFORMATION STABILITY OF POLYPEPTIDES FROM HUMAN HDL2-HDL 6013
LIPOPROTEIN MRNA FROM ESCHERICHIA COLI 6259
RELIPIDATION OF APOLIPOPROTEINS 6367
SELF-ASSOCIATION OF RHESUS MONKEY APOLIPOPROTEIN A-I 7437
KINETICS OF PYRENE EXCHANGE BETWEEN LIPOPROTEINS 7952
LIPOSOMES
MECHANISM OF RAT LIVER MICROSOMAL STEARYL-CO A DESATURASE 5095
LIPOTEICHOIC ACIDS
PURIFICATION OF THE PNEUMOCOCCAL AUTOLYSIN (AMIDASE) 4199
LIPOXYGENASE
KINETICS OF LINOLEATE OXYGENATION BY SOYBEAN LIPOXYGENASE 6801
SPECTRAL AND EPR STUDIES ON ROLE OF IRON IN LIPOXYGENASE 7144
LIPOXYGENAS
OXYGENATION OF UNSATURATED FATTY ACIDS IN RABBIT LEUKOCYTES 7816
LIPOYL DEHYDROGENASE
ASPARAGUSATE DEHYDROGENASES AND LIPOYL DEHYDROGENASE 3637
LITHIUM
SIZE-DEPENDENT EFFECTS OF MONOVALENT CATIONS 4315
LIVER
SEE ALSO ENDOPLASMIC RETICULUM
SEE ALSO MEMBRANES
SEE ALSO MICROSOMES
FATTY ACID INACTIVATION OF PHOSPHOFRUCTOKINASE 98
CARBON TETRACHLORIDE AND LIVER MICROSOMAL CALCIUM UPTAKE 1197
A HEPATIC BINDING PROTEIN FOR ASIALOGLYCOPROTEINS 1296
AMINO ACID COMPARTMENTATION AND HEPATIC PROTEIN TURNOVER 1375
FRACTIONATION OF RIBOSOMAL PROTEINS 1808
PHOSPHOFRUCTOKINASE STABILIZING FACTOR FROM LIVER 2323
PROTEIN DEGRADATION IN REGENERATING LIVER 2891
PURIFICATION OF EUKARYOTIC RIBOSOMAL PROTEINS 4666
MECHANISM OF RECEPTOR ACTIVATION 4758
MEMBRANE PERMEABILITY AND MICROSOMAL GLUCOSE-6-PHOSPHATASE 4981
RENAL METABOLISM OF EXOGENOUS CYCLIC AMP AND CYCLIC GMP 4998
CATION EFFECTS ON STEADY STATE MITOCHONDRIAL CALCIUM UPTAKE 5251
COMPARISON OF OLIGOSACCHARIDE-LIPIDS FROM SEVERAL TISSUES 6428
GLUCAGON EFFECT ON HEPATIC PROTEIN SYNTHESIS AND DEGRADATION 7785
LIVER CELLS
HORMONAL CONTROL OF GLYCOGEN METABOLISM IN FETAL HEPATOCYTES 1431
INDUCTION OF TRANSPORT IN CULTURED LIVER CELLS BY INSULIN 3014
MALIC ENZYME SYNTHESIS IN CULTURE 3627
REGULATION OF 6-PHOSPHOGLUCONATE DEHYDROGENASE SYNTHESIS 3539
RAT HIGH DENSITY LIPOPROTEIN CATABOLISM 4914
LIVER CELLS (ISOLATED)
SEE ALSO HEPATOMA
CYCLIC GMP, CA2-PLUS AND GLYCOGENOLYSIS BY LIVER CELLS 2987
CCL-4 MEDIATED LIPID PEROXIDATION IN ISOLATED LIVER CELLS 4973
ALPHA-ADRENERGIC ACTIVATION OF HEPATIC GLUCOSE OUTPUT I. 5208
ALPHA-ADRENERGIC ACTION IN LIVER. II 5209
GLUCOSE AND LACTATE FORMATION FROM PYRUVATE 6189
LIVER, ENZYME SOURCE
SEE ALSO SPECIFIC ENZYME
LIVER, PERFUSION
HEPATIC LIPID METABOLISM IN EXPERIMENTAL DIABETES 13
P-ENOLPYRUVATE CARBOXYKINASE INHIBITED BY MERCAPTOPICOLINATE 37
BILE ALCOHOL METABOLISM IN RABBIT LIVER 2789
REGULATION OF HEPATIC PYRUVATE KINASE 3796
LIVER, REGENERATION
BIOSYNTHESIS OF ORNITHINE DECARBOXYLASE 4436
LM CELLS
SEE ALSO FIBROBLAST CELLS
DNR OF ANIMAL CELLS 6147
LOLIGO PEALEII
SQUID MANTLE MUSCLE ADENYLATE KINASE 7818
LOW DENSITY LIPOPROTEINS
SEE ALSO LIPOPROTEINS
LUCIFERASE
POLYPEPTIDE SYNTHESIS DURING INDUCTION OF BIOLUMINESCENCE 2541
CORRECTION TO MICHALISZYN + NEIGHEN VOL. 251 (1976) P. 2941 4479

LUMINESCENCE
POLYPEPTIDE SYNTHESIS DURING INDUCTION OF BIOLUMINESCENCE 2541
CORRECTION TO MICHALISZYN + MEIGHEN VOL. 251 (1976) P. 2541 4479
LUNG
CYCLIC GMP-DEPENDENT PROTEIN KINASE FROM LUNG 1759
ACTIVATION OF RAT LUNG GUANYLATE CYCLASE BY INCUBATION 7304
CALF BETA-GALACTOSIDE BINDING LECTINS 7581
LUTEINIZING HORMONE
DESENSITIZATION BY LH OF LH-RESPONSIVE ADENYLYL CYCLASE 2653
CORRECTION TO BOCKAERT ET AL VOL. 251 (1976) P. 2653 5429
REDUCTION OF DISULFIDES IN GLYCOPROTEIN HORMONES 6388
REDUCTION AND REOXIDATION OF DISULFIDES OF LH ALPHA 6392
GONADOTROPIN INDUCED DESENSITIZATION OF ADENYLATE CYCLASE 7729
LUTROPIN
PROTEIN AND PEPTIDE HORMONE REACTIONS WITH TETRANITROMETHANE 308
NITRATION AND ACTIVITY OF LUTROPIN 316
LYMPHOBLAST CELLS
REGULATION OF DE NOVO PURINE SYNTHESIS IN HUMAN LYMPHOBLASTS 7348
LYMPHOCYTES
SEE ALSO WHITE BLOOD CELLS
SERUM ALBUMIN IS ESSENTIAL FOR LYMPHOCYTE GROWTH 987
CONTROL OF PYRIMIDINE SYNTHESIS BY GUANINE AND GUANOSINE 1427
SURFACE ALTERATIONS IN PERIODATE-OXIDIZED LYMPHOCYTES 1864
EFFECT OF PHOSPHOLIPASES ON STEROID BINDING 2279
SEROLOGY OF TERMINAL DEOXYNUCLEOTIDYLTRANSFERASE 2399
DIFFERENTIATION OF LYMPHOID CELLS 2469
HGH REGULATION OF ITS OWN RECEPTOR CONCENTRATION ON IM-9 3720
OPPOSING EFFECTS OF LECTINS ON LYMPHOCYTE ACTIVATION 4017
FREE RIBOSOMES IN RESTING LYMPHOCYTES 4891
LYMPHOCYTE CYCLIC AMP PHOSPHODIESTERASE 4922
CHEMISTRY OF CHICKEN MAJOR HISTOCOMPATIBILITY ANTIGENS 5391
2-FLUOROADENOSINE 3,5-MONOPHOSPHATE. CELLULAR FORMATION 6757
HORMONE RECEPTORS MICROFILAMENT MICROTUBULE MODIFIER EFFECTS 6844
GLUCOCORTICOID ACTION ON ATP PRODUCTION IN THYMIC LYMPHOCYTE 7295
EFFECTS OF SPIN-LABELED STEARATES ON ADENYLATE CYCLASE 7431
LYMPHOMA
L-ASPARAGINASE FROM VIBRIO SUCCINOGENES 6929
LYMPHOMA CELLS
REFRACTORINESS BY ISOPROTERENOL IN MUTANT CELLS 7572
LYSINE
SEE ALSO HISTONES
SEE ALSO POLYLYSINE
CONDITIONAL SPORE CORTEX-LESS MUTANTS OF B. SPHAERICUS 1493
CORRECTION TO IMAE AND STROMINGER VOL. 251 (1976) P. 1493 3839
LYSINE (IN PROTEINS)
SEE ALSO HISTONES
SEE ALSO PYRIDOXAL PHOSPHATE
CYTOCHROME C1-CYTOCHROME C COMPLEX 29
ESSENTIAL LYSYL RESIDUE IN ALDOLASE 3057
PLATELET FACTOR FOUR 4273
CARBONIC ANHYDRASE C SEQUENCE 5457
THE PK OF LYS-258 IN ASPARTATE TRANSAMINASE 5663
H5 HISTONE AND DNA-RELAXING ENZYME OF CHICKEN ERYTHROCYTES 7363
STRUCTURE OF HEMOGLOBINS PROVIDENCE ASP AND ASN 7557
LYSINE ETHYL ESTER
ACTION OF PHOSPHORYLASE PHOSPHATASE ON GLYCOGEN SYNTHASE B 2363
LYSOPHOSPHATIDYLGLYCEROL
LYSOSOMAL BIS(MONOACYLGLYCERYL)P SYNTHESIS 4596
LYSOSOMES
RETURN OF LDL RESPONSE IN ACID LIPASE-DEFICIENT FIBROBLASTS 3277
LYSOSOMAL BIS(MONOACYLGLYCERYL)P SYNTHESIS 4596
RAT HIGH DENSITY LIPOPROTEIN CATABOLISM 4914
COLLAGEN DEGRADATION BY EXTRACTS OF RAT LIVER LYSOSOMES 5280
STRUCTURE OF THE ACCUMULATING OLIGOSACCHARIDE IN FUCOSIDOSIS 5852
HEN OVIDUCT ENDO-BETA-N-ACETYLGLUCOSAMINIDASE 6537
SUBCELLULAR SITES OF HEPATIC BINDING PROTEIN 7539
LYSOZYME
LYSOZYME DERIVATIVE MODIFIED AT TRYPTOPHAN 123 1653
FOLDING PATHWAY OF REDUCED LYSOZYME 3147
FOLDING PATHWAY OF REDUCED LYSOZYME 3147
REACTIVATION OF REDUCED HEN EGG LYSOZYME FRAGMENT 1-127 3154
AQUEOUS LYSOZYME SOLUTIONS 4801
TRANSITION STATE ANALOG OF LYSOZYME CATALYSIS 4338
CARBON 13 NMR STUDY OF REACTION OF LYSOZYME WITH IODINE 6522
A STUDY OF RENATURATION OF REDUCED HEN EGG WHITE LYSOZYME 6934
LYSYL OXIDASE
ELASTIN BIOSYNTHESIS FROM SOLUBLE ELASTIN IN VITRO 1125
PURIFICATION AND SUBSTRATE SPECIFICITY OF LYSYL OXIDASE 5779
IN VITRO COLLAGEN CROSS-LINKING 5786
L1210 CELLS
ANALYSIS OF FOLATE DERIVATIVES IN MOUSE L1210 CELLS 3569

M

M PROTEIN
THIODIGALACTOSIDE BINDNG TO ESCHERICHIA COLI M PROTEIN 6735
MACROGLOBULIN
PLATELET PROTEASE INHIBITORS 4514
MAGNESIUM
ELONGATION FACTOR G BINDING TO THE RIBOSOME 1795
NMR STUDIES OF INTERACTION OF CR-ATP WITH PYRUVATE KINASE 2421
ADENINE NUCLEOTIDE TRANSPORT 2446
ANALYSIS OF INTACT MUSCLE BY 31P NUCLEAR MAGNETIC RESONANCE 2584
INTERACTION OF BACTERIAL IF-2 WITH INITIATOR TRNA 3338
A23187 INCREASES POTASSIUM PERMEABILITY OF ERYTHROCYTES 3489
PHOSPHORYLATION OF THE SARCOPLASMIC RETICULUM MEMBRANE 6355
ACID-INDUCED PHOSPHORYLATION OF BOUND ADP 7417
POLYMERIZATION OF ACANTHAMOEBA ACTIN 7474
SQUID BRAIN MYOSIN 7682
MAGNESIUM, EFFECT ON ENZYME ACTIVITY
SEE ALSO ATPASE
LEUCINE AMINOPEPTIDASE. EFFECT OF PH ON BINDING OF METAL ION 53
THIAMIN TRIPHOSPHATASE AND DIVALENT CATIONS 193
EFFECT OF METALS ON ESCHERICHIA COLI ARGINYL-TRNA SYNTHETASE 241
INCREASED CELL ECTO-PYROPHOSPHATASE UPON SIALIC ACID RELEASE 493
MODE OF ACTION OF CYCLIC GMP ON PROTEIN KINASE 1481
DNA KINASE FROM NUCLEI OF RAT LIVER 1767
MEMBRANE BOUND PEPTIDOGLYCAN SYNTHETIC PROTEIN B MEGATERIUM 1889
RABBIT SKELETAL MUSCLE GLYCOGEN SYNTHASE II 1926
BIOSYNTHESIS OF THE ATPASE OF SARCOPLASMIC RETICULUM 2636
ADENYLATE CYCLASE ACTIVITY IN SECRETORY VESICLES 2179
ACTION OF PHOSPHORYLASE PHOSPHATASE ON GLYCOGEN SYNTHASE B 2363
CR(III) AND INORGANIC PYROPHOSPHATASE 2611
5-PRIME-3-PRIME EXONUCLEASES OF BACTERIOPHAGE T4 2613
DESENSITIZATION BY LH OF LH-RESPONSIVE ADENYLYL CYCLASE 2653
NADH ACTIVATED PHOSPHOENOLPYRUVATE CARBOXYLASE 2754
6-PHOSPHOFRUCTOKINASE (PYROPHOSPHATE) 2958
COMPARATIVE BINDING AND RATE STUDY OF AMP NUCLEOSIDASE 3417
REGULATION OF ESCHERICHIA COLI GLUTAMINASE B. III 3463
SEPARATION OF DIFFERENT MYOSINS BY ATP AND ACTIN COLUMNS 3972
CATALYTIC FRAGMENT OF CYCLIC GMP-DEPENDENT PROTEIN KINASE 4476
FORMATION AND PROPERTIES OF RETINYLPHOSPHATE GALACTOSE 4986
CORRECTION TO BOCKAERT ET AL VOL. 251 (1976) P. 2653 5429
PURIFICATION OF COMPLEX U UMP SYNTHASIS FROM OROTATE OR OMP 5589
DNA DEGRADATION BY HEMOPHILUS EXONUCLEASE B 6127
RAT LIVER N-HYDROXY-2-ACETYLAMINOFLUORENE SULFOTRANSFERASE 6529
POLYAMINES AND TRNA NUCLEOTIDYLTRANSFERASE 6646
TETRAIODOFLUORESCEIN WITH YEAST HEXOKINASE 7157
A NEW ENDORIBONUCLEASE FROM ESCHERICHIA COLI RIBONUCLEASE N 7669
AMINOACYL-TRNA SYNTHETASES THE RATE-DETERMINING STEP 7717
MAGNESIUM DEPENDENT GUANYLATE CYCLASE 7769
MAGNETIC RESONANCE
SEE ALSO ELECTRON PARAMAGNETIC RESONANCE
SEE ALSO NUCLEAR MAGNETIC RESONANCE
MAGNETIC SUSCEPTIBILITY
EVIDENCE FOR MN(III) BINDING TO MANGANOSUPEROXIDE DISMUTASE 6157
MALATE
EFFECT OF HYDROGEN SHUTTLES ON FATTY ACID OXIDATION 277
REGULATORY PROPERTIES OF ASCARIS NAD-MALIC ENZYME 3599
MALATE DEHYDROGENASE
DEHYDROGENASE INHIBITION BY PALMITOYL COENZYME A 1406
INACTIVATION OF CYTO MALATE DEHYDROGENASE BY PYRIDOXAL-5-P 6304
MALEATE
STUDIES OF HUMAN KIDNEY GAMMA-GLUTAMYL TRANSPEPTIDASE 2271
MALEIC ANHYDRIDE
SUBUNIT STRUCTURE OF AMP-DEAMINASE 1847
MALEIMIDE, N-ETHYL
SEE ALSO SULFHYDRYLS
MALEIMIDES
IMPERMEANT MALEIMIDES AND ERYTHROCYTE MEMBRANE PROTEINS 7176
EXOFACIAL COMPONENT OF ERYTHROCYTE HEXOSE TRANSPORT 7184
MALEYLATED PEPTIDES
PRIMARY STRUCTURE OF BACILLUS SUBTILIS FLAGELLIN. II. 701
MALIC ENZYME
MALIC ENZYME SYNTHESIS IN CULTURE 3027
REGULATORY PROPERTIES OF ASCARIS NAD-MALIC ENZYME 3599
KINETIC EPR AND NMR STUDIES OF MALIC ENZYME 6574
MALONDIALDEHYDE
CCL-4 MEDIATED LIPID PEROXIDATION IN ISOLATED LIVER CELLS 4973
MALONYL CO A
CIRCULAR DICHROISM OF BIOTIN CARBOXYL CARRIER PROTEIN 2063
MALTASE
AA SEQUENCE OF ACTIVE SITE PEPTIDES FROM SUCRASE-ISOMALTASE 3250
MALTOSE
EFFECT OF CPR MUTATION ON REPRESSION OF ENZYME SYNTHESIS 6598
INDUCER EXCLUSION AND REGULATION OF SUGAR TRANSPORT SYSTEMS 6606
MAMMARY GLANDS
SEE ALSO MILK
ORNITHINE DECARBOXYLASE DURING DEVELOPMENT OF MAMMARY GLAND 1738
POLYAMINE TRANSPORT IN MAMMARY GLAND 2795
CORRECTION TO OKA + PERRY VOL. 251 (1976) P. 1738 3528
ECTO-ENZYMES OF MAMMARY GLAND AND ITS TUMORS 6173
MAMMARY TUMORS
ECTO-ENZYMES OF MAMMARY GLAND AND ITS TUMORS 6173
MANDUCA SEXTA
M. SEXTA JUVENILE HORMONE CARRIER PROTEIN 4979
MANGANESE
P-ENOLPYRUVATE CARBOXYKINASE INHIBITED BY MERCAPTOPICOLINATE 37
CONFORMATIONS OF PYRUVATE KINASE BY MONOVALENT CATIONS 73
31-P NMR OF PHOSPHATE COMPLEXES OF PHOSPHATASE 1207
REVERSIBLE RESOLUTION OF A MANGANIC SUPEROXIDE DISMUTASE 1217
THE MNADP COMPLEX WITH MYOSIN SUBFRAGMENT 1 1975
CONFORMATION OF ATP ON PYRUVATE KINASE 2412
SUBSTRATE CONFORMATIONS ON PYRUVATE KINASE 2431
ADENINE NUCLEOTIDE TRANSPORT 2446
STRUCTURE OF CREATINE KINASE-SUBSTRATE COMPLEXES 2777
CORRECTION TO OSE AND FRIDOVICH VOL. 251 (1976) P. 1217 4796
EVIDENCE FOR MN(III) BINDING TO MANGANOSUPEROXIDE DISMUTASE 6157
MN-PROTHROMBIN INTERACTIONS 6294
MANGANESE, EFFECT ON ENZYME ACTIVITY
REVERSIBLE RESOLUTION OF A MANGANIC SUPEROXIDE DISMUTASE 1217
MODE OF ACTION OF CYCLIC GMP ON PROTEIN KINASE 1481
DNA KINASE FROM NUCLEI OF RAT LIVER 1767
CIRCULAR DICHROISM OF BIOTIN CARBOXYL CARRIER PROTEIN 2063
NADH ACTIVATED PHOSPHOENOLPYRUVATE CARBOXYLASE 2754
METAL(II) ION, ANION EFFECTS ON P-ENOLPYRUVATE CARBOXYKINASE 2916
KINETIC MECHANISM OF LACTOSE SYNTHASE 3003
REGULATION OF ESCHERICHIA COLI GLUTAMINASE B. III 3463
METAL ION ACTIVATION OF GALACTOSYL TRANSFERASE 3645
PROTEIN BINDING TO GALACTOSYLTRANSFERASE 3653
GUANYLATE CYCLASE PURIFICATION 4671
CORRECTION TO OSE AND FRIDOVICH VOL. 251 (1976) P. 1217 4796
FORMATION AND PROPERTIES OF RETINYLPHOSPHATE GALACTOSE 4986
KINETIC EPR AND NMR STUDIES OF MALIC ENZYME 6574
A NEW ENDORIBONUCLEASE FROM ESCHERICHIA COLI RIBONUCLEASE N 7669
MAGNESIUM DEPENDENT GUANYLATE CYCLASE 7769
MANNANASE
AN ENDO-1-6-D-MANNANASE FROM SOIL BACTERIA 174
MANNITOL
REGULATION OF CARBOHYDRATE METABOLISM IN BACTERIA 883
MANNITOL 1-PHOSPHATE
SUGAR TRANSPORT AND TRANSPHOSPHORYLATION SYSTEM 3834
MANNOSE
SEE ALSO GLYCOPROTEINS
SEE ALSO POLYSACCHARIDES
UTILIZATION OF EXOGENOUS GDP-MANNOSE BY OVIDUCT CELLS 2511
MANNOSYL GLYCOPEPTIDES AND CELL GROWTH STATUS 4673
MEMBRANE PERMEABILITY AND MICROSOMAL GLUCOSE-6-PHOSPHATASE 4901
FORMATION AND PROPERTIES OF RETINYLPHOSPHATE GALACTOSE 4986
DEACETYLATION ACTIVITY OF SALMONELLA PHAGE C341 5361
EFFECT OF GLYCOSYLATION ON PLASMA HALF-LIFE OF RIBONUCLEASE 6016
HEN OVIDUCT ENDO-BETA-N-ACETYLGLUCOSAMINIDASE 6537
MANNOSE 2-PHOSPHATE
ANOMERIC CONFIGURATION OF D-MANNOSYL RETINYL PHOSPHATE 6465
MANNOSE 6-PHOSPHATE
MEMBRANE PERMEABILITY AND MICROSOMAL GLUCOSE-6-PHOSPHATASE 4901
MANNOSIDASE
ALPHA-D-MANNOSIDASE OF RAT LIVER CYTOSOL 3845
BETA-MANNOSIDASE FROM THE MUSHROOM POLYPORUS SULFUREUS 4384
MANNOSYL GLYCOPEPTIDES AND CELL GROWTH STATUS 4673
STRUCTURE OF A THYROID OLIGOSACCHARIDE-LIPID INTERMEDIATE 6409
COMPARISON OF OLIGOSACCHARIDE-LIPIDS FROM SEVERAL TISSUES 6428
ANOMERIC CONFIGURATION OF D-MANNOSYL RETINYL PHOSPHATE 6465
MANNOSYL RETINYL PHOSPHATE
ANOMERIC CONFIGURATION OF D-MANNOSYL RETINYL PHOSPHATE 6465
MANNOSYLPHOSPHORYLDOLICHOL
UTILIZATION OF EXOGENOUS GDP-MANNOSE BY OVIDUCT CELLS 2511
MARIHUANA
DELTA-9-TETRAHYDROCANNABINOL AND NADH-OXIDASE 5002
MASS FRAGMENTOGRAPHY
SEE ALSO MASS SPECTROMETRY
THE PROSTAGLANDIN SYSTEM IN DEVELOPING LAMB BRAIN 3381

MASS SPECTROMETRY
AVIAN MITOCHONDRIAL GLUTAMINE METABOLISM 781
CLEAVAGE OF PHYCOCYANOBILIN FROM C-PHYCOCYANIN 2405
THE PROSTAGLANDIN SYSTEM IN DEVELOPING LAMB BRAIN 3381
MASTIGONEMES
OCHROMONAS FLAGELLAR MEMBRANE ISOLATION AND CHARACTERIZATION 1828
MASTOCYTOMA
FORMATION AND PROPERTIES OF RETINYLPHOSPHATE GALACTOSE 4986
MEGAREDOXIN
15-BETA-HYDROXYLASE SYSTEM IN BACILLUS MEGATERIUM 2831
MELTING PROTEINS
SEE ALSO UNWINDING PROTEIN
EFFECTS OF GENE 32-PROTEIN BINDING ON DNA CONFORMATION 7215
MEMBRANES
PROPERTIES OF NGF RECEPTORS IN EMBRYONIC BRAIN 1516
DEVELOPMENT OF NGF RECEPTORS IN EMBRYONIC BRAIN 1524
BIOLOGICAL ELECTRIC GENERATORS. CYTOCHROME OXIDASE 7872
MEMBRANES, ADRENAL
ADENYLATE CYCLASE ACTIVITY IN SECRETORY VESICLES 2179
CHROMAFFIN GRANULE MEMBRANE POTENTIAL 4544
MEMBRANES, ANOEBAL
COMPOSITION AND STRUCTURE OF LIPOPHOSPHONOGLYCAN 2976
MEMBRANES, ANIMAL
SEE ALSO ADENYLATE CYCLASE
SEE ALSO ATPASE
SEE ALSO CYCLIC AMP
SEE ALSO LECTINS
SEE ALSO MEMBRANES, ADRENAL
SEE ALSO MEMBRANES, BRAIN
SEE ALSO MEMBRANES, FAT CELLS
SEE ALSO MEMBRANES, LIVER
SEE ALSO MEMBRANES, LYMPHOCYTES
SEE ALSO MEMBRANES, MITOCHONDRIAL
SEE ALSO MEMBRANES, NERVE
SEE ALSO MEMBRANES, PLASMA
SEE ALSO MEMBRANES, RED BLOOD CELLS
SEE ALSO MEMBRANES, SARCOPLASMIC RETICULUM
SEE ALSO RECEPTORS, HORMONAL
SEE ALSO TRANSPORT, ANIMAL
SEE ALSO WALLS, CELL
BIOCHEMISTRY OF TASTE. STIMULUS BINDING TO RECEPTORS 88
PROPERTIES OF SYNTHETIC PARATHYROID HORMONE ANALOGUES 159
GROUP TRANSLOCATION OF INOSINE RIBOSE MOIETY BY SV-3T3 CELLS 344
TRYPTIC FRAGMENTS OF SARCOPLASMIC RETICULUM ATPASE 712
INHIBITION OF GLUCOSE-6-PHOSPHATASE BY PYRIDOXAL PHOSPHATE 1635
UPTAKE OF NUCLEOSIDE RADIOACTIVITY BY L-CELL PLASMA MEMBRANE 1175
ENZYMES INVOLVED IN VESICLE TRANSPORT 1181
LOCATION OF MITOCHONDRIAL PROTEINS BY LABELING REAGENTS 1354
SIDEDNESS OF MEMBRANE PHOSPHORYLATION DURING ATP SYNTHESIS 1413
ERYTHROCYTE MEMBRANE D-GLUCOSE TRANSPORT PROTEIN 1502
THE NEGATIVE COOPERATIVITY OF INSULIN RECEPTORS 1877
PROPERTIES OF CYTOSOL AND MEMBRANE-DERIVED PROTEIN KINASES 2192
THYROID PEROXIDASE AND NONIONIC DETERGENTS 2525
MEMBRANE PERMEABILITY AND MICROSOMAL GLUCOSE-6-PHOSPHATASE 4901
CCL-4 MEDIATED LIPID PEROXIDATION IN ISOLATED LIVER CELLS 4973
MAMMALIAN MEMBRANES WITH ALTERED PHOSPHOLIPID COMPOSITION 5015
DIPHTHERIA TOXIN INTERACTION WITH CELL MEMBRANES 5770
GOLGI GALACTOSYLTRANSFERASE OF CONCANAVALIN A 5860
DNR OF ANIMAL CELLS 6147
ECTO-ENZYMES OF MAMMARY GLAND AND ITS TUMORS 6173
PHOSPHORYLATION OF THE SARCOPLASMIC RETICULUM MEMBRANE 6355
INSULIN BINDING TO CHICK EMBRYO FIBROBLASTS 6445
CORRECTION TO DEMEYTS ET AL VOL. 251 (1976) P. 1877 6479
RICIN-RESISTANT MOUSE L CELL LINES 7761
SOLUBILIZATION NORMALIZES ADENYLATE CYCLASE ACTIVITY 7950
MEMBRANES, BACTERIAL
SEE ALSO TRANSPORT, BACTERIAL
SEE ALSO WALLS, CELL
PROTON-COUPLED CALCIUM TRANSPORT 962
SITE OF RIBOSOME DEGRADATION IN STARVED ESCHERICHIA COLI 1147
CORRECTION TO SAIER ET AL VOL. 256 (1975) P. 7593 1531
STRUCTURE OF A PROKARYOTIC GLYCOPROTEIN FROM H. SALINARIUM 2465
RECONSTITUTION OF PERMEABILITY CHANNELS 2176
NUCLEOSIDE PHOSPHOTRANSFERASE FROM ERWINIA HERBICOLA 2330
ACYL SELECTIVITIES OF ACYLTRANSFERASES IN E. COLI 2487
PHOSPHATIDYLSERINE SYNTHETASE MUTANTS OF ESCHERICHIA COLI 3242
A MEMBRANE PROTEIN INVOLVED IN DNA INITIATION 3478
MEMBRANE PENICILLINASE OF B. LICHENIFORMIS 4095
PHOSPHOLIPOPEPTIDE FROM BACILLUS MEMBRANE PENICILLINASE 4102
MEMBRANE DERIVED OLIGOSACCHARIDES OF ESCHERICHIA COLI 4208
OXIDATIVE PHOSPHORYLATION IN VESICLES OF E. COLI 5315
ATP-DEPENDENT CALCIUM TRANSPORT IN MEMBRANE VESICLES 5614
PURIFICATION OF E. COLI RESPIRATORY CHAIN NADH DEHYDROGENASE 5911
KINETIC AND IMMUNOLOGICAL STUDY OF NADH DEHYDROGENASE 5921
N-ACETYLGLUCOSAMINYLTRANSFERASE IN PEPTIDOGLYCAN SYNTHESIS 6154
LIPOPROTEIN MRNA FROM ESCHERICHIA COLI 6259
EFFECT OF LIPIDS ON RECONSTITUTION OF MEMBRANE VESICLES 6662
COLICINS CAUSE DISAPPEARANCE OF MEMBRANE PROTEINS 7577
F1 BACTERIOPHAGE COAT PROTEIN AND PHOSPHOLIPID METABOLISM 7739
DEGRADATION OF PENILLILLIN G BY D-ALANINE CARBOXYPEPTIDASE 7947
MEMBRANES, BASEMENT
SYNTHESIS OF BASEMENT MEMBRANE COLLAGEN BY ENDOTHELIUM 730
BASEMENT MEMBRANE PROCOLLAGEN IN PARIETAL YOLK SAC CULTURES 1789
MEMBRANES, BIOGENESIS
INCORPORATION OF PROTEINS INTO LIPOSOMES 6831
MEMBRANES, BIOSYNTHESIS
BIOSYNTHESIS OF CALSEQUESTRIN 7733
MEMBRANES, BLACK LIPID
CA++-IONOPHORE ACTIVITY IN ATPASE FRAGMENT 4147
MEMBRANES, BRAIN
PARTICULATE NICOTINIC ACETYLCHOLINE RECEPTOR IN BRAIN 6335
STRUCTURING OF GANGLIOSIDE AGGREGATES 7083
BRAIN ANGIOTENSIN RECEPTORS 7423
MEMBRANES, CHEMICAL
COMPARATIVE STUDIES OF LIPASE AND PHOSPHOLIPASE A2 3128
MEMBRANES, CHLOROPLAST
SEE ALSO MEMBRANES, PLANT
MEMBRANES, ENDOPLASMIC RETICULUM
SEE ALSO MEMBRANES, ANIMAL
SEE ALSO MEMBRANES, SARCOPLASMIC RETICULUM
MEMBRANES, FAT CELLS
SEE ALSO MEMBRANES, ANIMAL
SULFHYDRYL AGENTS AND FAT CELL HEXOSE TRANSPORT 1164
ADIPOCYTE BETA-ADRENERGIC RECEPTORS 3096
CALCIUM BINDING TO ADIPOCYTE PLASMA MEMBRANES 5345
FAT CELL CHOLERA TOXIN RECEPTOR 7610
MEMBRANES, FLAGELLAR
OCHROMONAS FLAGELLAR MEMBRANE ISOLATION AND CHARACTERIZATION 1828
LIPID COMPOSITION OF OCHROMONAS DANICA FLAGELLAR MEMBRANE 1835
MEMBRANES, FLUIDITY
EFFECTS OF SPIN-LABELED STEARATES ON ADENYLATE CYCLASE 7431
MEMBRANES, INTESTINE
PURIFICATION OF INTESTINAL BRUSH BORDER MEMBRANE PEPTIDASES 3199
PROPERTIES OF INTESTINAL BRUSH BORDER MEMBRANE PEPTIDASES 3206
MEMBRANES, KIDNEY
SUBUNIT COMPOSITION OF THE GLOMERULAR BASEMENT MEMBRANE 4062
MEMBRANES, LIPID
LIPID COMPOSITION OF OCHROMONAS DANICA FLAGELLAR MEMBRANE 1835
MEMBRANES, LIVER
GUINEA PIG LIVER L-ASPARAGINASE 2530
COLCHICINE INHIBITION OF HEPATIC GLYCOPROTEIN SECRETION 3887
SYNTHESIS IN VITRO OF INTRINSIC MEMBRANE PROTEINS 5054
MECHANISM OF RAT LIVER MICROSOMAL STEARYL-CO A DESATURASE 5095
EGASYN, A PROTEIN STABILIZING GLUCURONIDASE MEMBRANE BINDING 7753
LATENCY OF INOSINE 5-PRIME-DIPHOSPHATASE 7821
MEMBRANES, LYMPHOCYTES
SURFACE ALTERATIONS IN PERIODATE-OXIDIZED LYMPHOCYTES 1864
CHEMISTRY OF CHICKEN MAJOR HISTOCOMPATIBILITY ANTIGENS 5391
MEMBRANES, MICROSOMAL
SEE ALSO MEMBRANES, ANIMAL
SEE ALSO MICROSOMES
RECONSTITUTION OF A CALCIUM PUMP IN SARCOPLASMIC RETICULUM 3169
CYTOCHROME P 450 REDUCTION 4810
METHYL STEROL OXIDASE 6638
ATPASE OF SARCOPLASMIC RETICULUM 6894
MOLECULAR PROPERTIES OF MICROSOMAL MEMBRANE PROTEINS 7699
MEMBRANES, MITOCHONDRIAL
SEE ALSO MEMBRANES, ANIMAL
SEE ALSO MITOCHONDRIA
ATP-DEPENDENT PROPERTIES OF MITOCHONDRIA 934
EUKARYOTIC CYTOCHROMES C REACTIONS WITH MITOCHONDRIAL ENZYME 1104
LOCATION OF MITOCHONDRIAL PROTEINS BY LABELING REAGENTS 1354
BIOCHEMICAL AND ULTRASTRUCTURE CHANGES IN B12 DEFICIENCY 2147
CELLULAR ACTION OF A23187--(SPERM+ CALCIUM TRANSPORT) 3881
THE INFLUENCE OF HLB AND CMC ON DISRUPTION OF MEMBRANES 4442
STOICHIOMETRY OF MITOCHONDRIAL PROTON EJECTION 5670
MITOCHONDRIAL INNER MEMBRANE SYNTHESIS IN CULTURED OOCYTES 6097
MITOCHONDRIAL CARNITINE ACYLCARNITINE TRANSLOCASE 6683
MEMBRANES, MYELIN
ORGANIZATION OF MEMBRANE PROTEINS IN INTACT MYELIN SHEATH 4729
MEMBRANES, NERVE
SEE ALSO MEMBRANES, BRAIN
TOPOGRAPHY OF GLYCOPROTEINS IN THE INTACT MYELIN SHEATH 153
SOLUBILIZED NGF RECEPTORS 5680
MEMBRANES, NUCLEAR
NUCLEAR LOCATION OF MAMMALIAN DNA POLYMERASE ACTIVITIES 7893
MEMBRANES, OVIDUCT
ROLE OF TRISACCHARIDE-LIPID IN GLYCOSYLATION OF PROTEINS 7882
MEMBRANES, PANCREAS
BINDING OF VASOACTIVE INTESTINAL PEPTIDE 4629
MEMBRANES, PARATHYROID
PARATHYROID HORMONE CONVERTING ACTIVITY 6711
MEMBRANES, PHOSPHOLIPID
SEE ALSO LECITHIN
SEE ALSO PHOSPHOLIPIDS
TRANSMEMBRANE ASYMMETRY OF PHOSPHATIDYLCHOLINE VESICLES 2110
MEMBRANES, PHOSPHORYLATION
ATP SYNTHESIS IN SARCOPLASMIC RETICULUM VESICLES 2055
BINDING OF SUBSTRATES TO RIBONUCLEOTIDE REDUCTASE 3616
PROTEIN KINASE IN THE OUTER MEMBRANE OF 3T3 AND SV3T3 CELLS 7899
MEMBRANES, PLACENTA
THE PLASMA MEMBRANE OF HUMAN PLACENTA 4139
MEMBRANES, PLANT
ORGANIZATION OF CHLOROPLAST MEMBRANES IN C. REINHARDI 247
BIOLOGICAL ELECTRIC GENERATORS. H-PLUS-ATPASE 7877
ENERGY-DEPENDENT AMINO GROUP EXPOSURE ON CHLOROPLAST CF1 7168
MEMBRANES, PLASMA
SEE ALSO MEMBRANES, ANIMAL
SEE ALSO MEMBRANES, LIVER
SEE ALSO MEMBRANES, RED BLOOD CELLS
TURNOVER OF THE PLASMA MEMBRANE PROTEINS OF HTC CELLS 872
SURFACE ALTERATIONS IN PERIODATE-OXIDIZED LYMPHOCYTES 1864
DESENSITIZATION BY LM OF LM-RESPONSIVE ADENYLYL CYCLASE 2653
CYTOCHALASIN B BINDING TO FAT CELL PLASMA MEMBRANES 2985
COMPOSITION AND STRUCTURE OF LIPOPHOSPHONOGLYCAN 2976
RESPONSE TO ACTH ANALOGS OF ADRENAL MEMBRANES AND CELLS 3576
CELLULAR ACTION OF A23187--(SPERM+ CALCIUM TRANSPORT) 3881
C6 CELL ECTO-5-PRIME-NUCLEOTIDASE 3908
STEPS IN INHIBITION OF PROTEIN SYNTHESIS BY ABRIN AND RICIN 3985
CORRECTION TO BOCKAERT ET AL VOL. 251 (1976) P. 2653 5429
PLASMA MEMBRANE IS ORIGIN OF SEMLIKI FOREST VIRUS ENVELOPE 5544
STIMULATION OF GUANYLATE CYCLASE BY FREE FATTY ACIDS 5802
CHARACTERISTIC TEMPERATURES OF LM CELL MEMBRANES 6739
PHYSICAL PROPERTIES OF MEMBRANES WITH ALTERED PHOSPHOLIPIDS 6747
GONADOTROPIN RECEPTORS IN CORPUS LUTEUM PLASMA MEMBRANES 7398
PHOSPHOLIPID ROLE IN CORPUS LUTEUM GONADOTROPIN RECEPTORS 7405
SUBCELLULAR SITES OF HEPATIC BINDING PROTEIN 7539
FAT CELL CHOLERA TOXIN RECEPTOR 7610
MEMBRANES, PLATELET
COLLAGEN-PLATELET INTERACTION 6347
MEMBRANES, PLATELETS
PLATELET GLYCOCALICIN I. SURFACE ORIENTATION 5944
MEMBRANES, PROBES
ARRANGEMENT OF PROTEINS IN SARCOPLASMIC RETICULUM 2037
MEMBRANES, PROTEIN
SEE ALSO PROTEIN, MEMBRANE
2-D ELECTROPHORESIS OF ERYTHROCYTE MEMBRANE PROTEINS 253
OCHROMONAS FLAGELLAR MEMBRANE ISOLATION AND CHARACTERIZATION 1828
MEMBRANE BOUND PEPTIDOGLYCAN SYNTHETIC PROTEIN B MEGATERIUM 1889
PROPERTIES OF CYTOSOL AND MEMBRANE-DERIVED PROTEIN KINASES 2192
CHARACTERIZATION OF K9 ALKALINE PHOSPHATASE 2620
SUBUNIT COMPOSITION OF THE GLOMERULAR BASEMENT MEMBRANE 4062
SYNTHESIS IN VITRO OF INTRINSIC MEMBRANE PROTEINS 5054
N-ACETYLGLUCOSAMINYLTRANSFERASE IN PEPTIDOGLYCAN SYNTHESIS 6154
COMPARISON OF PURIFIED MURINE LEUKEMIA VIRUS GLYCOPROTEINS 6197
LIPOPROTEIN MRNA FROM ESCHERICHIA COLI 6259
PURIFICATION OF THE CARBODIIMIDE-REACTIVE PROTEIN 6638
AMINO ACID SEQUENCE OF CYTOCHROME B5 6767
INCORPORATION OF PROTEINS INTO LIPOSOMES 6831
COLICINS CAUSE DISAPPEARANCE OF MEMBRANE PROTEINS 7577
MEMBRANES, PROTOZOA
UNSATURATED FATTY ACID SYNTHESIS IN TETRAHYMENA 7588
MEMBRANES, PURIFICATION
AFFINITY PARTITIONING OF MEMBRANES 858
MEMBRANES, RED BLOOD CELL
PHOTOACTIVATED CROSS-LINKING OF MEMBRANE PROTEINS 7413
MEMBRANES, RED BLOOD CELLS
SEE ALSO MEMBRANES, ANIMAL
2-D ELECTROPHORESIS OF ERYTHROCYTE MEMBRANE PROTEINS 253
HUMAN ERYTHROCYTE GLYCOPROTEINS 510
ERYTHROCYTE MEMBRANE D-GLUCOSE TRANSPORT PROTEIN 1502
SOLUBLE BETA-ADRENERGIC RECEPTORS 2374

GLYCOPROTEIN-ENRICHED VESICLES FROM ERYTHROCYTE GHOSTS 3500
BLOOD GROUP ACTIVE GLYCOPROTEIN OF ERYTHROCYTE MEMBRANE 3610
IONOPHORE A23187 ALTERS ERYTHROCYTE PHOSPHOLIPID METABOLISM 4162
OXYGEN-18 DEPLETION FROM CO2 IN ERYTHROCYTE SUSPENSIONS 4428
NUCLEOTIDES REGULATE BETA-ADRENERGIC RECEPTORS 4686
NEGATIVE COOPERATIVITY AMONG BETA-ADRENERGIC RECEPTORS 5007
ARRANGEMENT OF 95,000-DALTON PEPTIDE IN RED CELL MEMBRANE 5115
EFFECT OF PYRIDINE DERIVATIVES ON GLUCOSE TRANSPORT 5141
MEMBRANE GLYCOPROTEINS OF EN(A-) ERYTHROCYTES 6108
MEMBRANES OF DEVELOPING CHICK ERYTHROCYTES 6667
IMPERMEANT MALEIMIDES AND ERYTHROCYTE MEMBRANE PROTEINS 7176
EXOFACIAL COMPONENT OF ERYTHROCYTE HEXOSE TRANSPORT 7184
MEMBRANES, SARCOPLASMIC RETICULUM
SEE ALSO MEMBRANES, ANIMAL
SEE ALSO SARCOPLASMIC RETICULUM
ROLE OF PHOSPHOLIPIDS IN THE CALCIUM-DEPENDENT ATPASE 4224
CORRECTION TO HIDALGO ET AL VOL. 251 (1976) P. 4224 6160
ATPASE OF SARCOPLASMIC RETICULUM 6894
STIMULATION OF CALCIUM PUMP BY MONOVALENT CATIONS 6947
MEMBRANES, SENSORY
BIOCHEMISTRY OF TASTE. STIMULUS BINDING TO RECEPTORS 88
MEMBRANES, STOMACH
A NONELECTROGENIC H+ PUMP IN HOG GASTRIC MEMBRANE 7690
MEMBRANES, SYNAPTIC
SEE ALSO MEMBRANES, BRAIN
MEMBRANES, TESTES
FOLLITROPIN RECEPTOR INTERACTION 3326
MEMBRANES, THYROID
TSH BINDING TO BEEF THYROID MEMBRANES 4247
THYROTROPIN RECEPTORS IN THYROID PLASMA MEMBRANES 4693
FORMATION OF LIPID-SACCHARIDE INTERMEDIATE BY THYROID SLICES 6400
MENADIONE
SUPEROXIDE ANION AND DRUG INDUCED HEMOLYSIS 6468
MERCAPTOBENZOATE
P-OH-BENZOATE HYDROXYLASE MECHANISM WITH P-MERCAPTOBENZOATE 7367
MERCAPTOETHYLAMINE
CYSTINE METABOLISM IN HUMAN FIBROBLASTS 4287
MERCAPTOPICOLINATE
P-ENOLPYRUVATE CARBOXYKINASE INHIBITED BY MERCAPTOPICOLINATE 37
3-MERCAPTOPICOLINIC ACID. INHIBITION OF C-4 PHOTOSYNTHESIS 5824
MERCURIBENZOATE
SEE ALSO SULFHYDRYLS
MERCURY
ZINC-CHLORIDE ION EXCHANGE RATES IN CARBOXYPEPTIDASE A 403
MEROMYOSIN
SEE ALSO MYOSIN
MESSENGER RNA
SEE ALSO RNA, MESSENGER
METABOLIC REGULATION
SEE ALSO ENZYMES, REGULATION IN VIVO
METALLOENZYMES
SEE ALSO SPECIFIC ENZYMES
SEE ALSO SPECIFIC METAL
LEUCINE AMINOPEPTIDASE. EFFECT OF PH ON BINDING OF METAL ION 53
ZINC-CHLORIDE ION EXCHANGE RATES IN CARBOXYPEPTIDASE A 403
PHOSPHORYL ALKALINE PHOSPHATASES 1202
31-P NMR OF PHOSPHATE COMPLEXES OF PHOSPHATASE 1207
LEUCINE AMINOPEPTIDASE (BOVINE LENS) COBALT ENZYME 1618
METALLOPROTEINS
LIMULUS HEMOCYANINS 7644
NEGLIGIBLE AMOUNT OF COPPER IN L-TRYPTOPHAN 2,3-DIOXYGENASE 7722
METAMORPHOSIS
DNA SYNTHESIS AND TURNOVER DURING TADPOLE METAMORPHOSIS 4111
THYROXINE-INDUCED CHANGES IN AMPHIBIAN LIVER ORGANELLES 6161
METHANE SULFINIMIDE
ENZYMATIC REACTIONS OF METHIONINE SULFOXIMINE 6674
METHANE SULFONIC ACID
COMPLETE AMINO ACID ANALYSIS OF PROTEINS 1936
METHEMOGLOBIN
SEE ALSO HEMOGLOBIN
MERCURIAL BINDING TO HEMOGLOBIN 441
PHOSPHATE BINDING TO HEMOGLOBIN 447
SUPEROXIDE MEDIATED METHEMOGLOBIN FORMATION 1015
HEME REDUCTION IN HUMAN METHEMOGLOBIN 2077
ORGANIC PHOSPHATES AND METHEMOGLOBIN REDUCTION BY ASCORBATE 7494
METHENYLTETRAHYDROFOLATE CYCLOHYDROLASE
A MAMMALIAN PROTEIN WITH MULTIPLE CATALYTIC ACTIVITIES 5104
METHIONAL
MECHANISM FOR SELF-DEACTIVATION OF PROSTAGLANDIN SYNTHETASE 7329
METHIONINE
SEE ALSO FORMYLMETHIONINE
METHIONINE (IN PROTEINS)
CYTOCHROME C1-CYTOCHROME C COMPLEX 29
PROPERTIES OF SYNTHETIC PARATHYROID HORMONE ANALOGUES 159
ALPHA-N-ACETYLATION OF EHRLICH ASCITES PROTEINS 1009
SUBUNIT COMPOSITION OF EMBRYONIC CHICK LENS S-CRYSTALLIN 4416
ALKYLATION OF METHIONINE IN FUMARASE BY BENZYL BROMIDE 5711
MYOGLOBIN WITH 13C IN METHIONINE METHYLS 7452
METHIONINE SULFONE
CATALYTIC MECHANISMS OF GLUTAMINE SYNTHETASE ENZYMES 7530
METHIONINE SULFOXIMINE
ENZYMATIC REACTIONS OF METHIONINE SULFOXIMINE 6674
CATALYTIC MECHANISMS OF GLUTAMINE SYNTHETASE ENZYMES 7530
METHIONINE TRNA
SPECIFIC BINDING OF IF-2 (E. COLI) TO FMET-TRNA 137
FLUORIDE AND INITIATION COMPLEXES OF PROTEIN SYNTHESIS 292
METHIONINE, S-BENZYL
ALKYLATION OF METHIONINE IN FUMARASE BY BENZYL BROMIDE 5711
METHIONYL-TRNA
CHARACTERIZATION OF EIF-3 1926
WHEAT GERM 80S RIBOSOME METHIONYL-TRNA COMPLEX 6075
METHIONYL-TRNA BINDING
INITIATION FACTOR IF-E2 FROM RABBIT RETICULOCYTES 7675
METHOTREXATE
MITOCHONDRIAL DNA SYNTHESIS IN MOUSE L-CELLS 2938
SYNTHESIS AND DEGRADATION OF FOLATE REDUCTASE 3063
OVERPRODUCTION OF DIHYDROFOLATE REDUCTASE 3675
REGULATION OF FOLATE REDUCTASE SYNTHESIS IN SARCOMA 180 CELL 6987
METHYL STEROL OXIDASE
METHYL STEROL OXIDASE 6638
METHYL-GAMMA-GLUTAMYL-L-ALPHA-AMINOBUTYRATE
KINETICS OF GAMMA-GLUTAMYL TRANSPEPTIDASE 4736
METHYL-GMP
METHYLATED GUANOSINE NUCLEOTIDE INHIBITS HELA TRANSLATION 5657
METHYLAMINE
INTERNAL PH OF CHROMAFFIN VESICLES 2189
NADH ACTIVATED PHOSPHOENOLPYRUVATE CARBOXYLASE 2754
CHROMAFFIN GRANULE MEMBRANE POTENTIAL .4544
METHYLATION
CORRECTION TO MARTIN ET AL VOL. 250 (1975) P. 9322 2539
METHYLATED, BLOCKED 5-PRIME TERMINI OF YEAST M-RNA 2898
MITOCHONDRIAL RRNAS IN NEUROSPORA 3081
UNIQUE PROSTHETIC GROUP OF ERYTHROCYTE HEMOPROTEIN 3927
FORMATION OF REOVIRUS MRNA TERMINAL SEQUENCE M7-GPPPG-M-PC 5043
MESSENGER RNA (GUANINE-7-)-METHYLTRANSFERASE OF HELA CELLS 5283
SPECIFICITY OF VACCINIA MRNA GUANYLYL- AND METHYLTRANSFERASE 7313
MYOGLOBIN WITH 13C IN METHIONINE METHYLS 7452
FOLATE-DEPENDENT RIBOTHYMIDINE BIOSYNTHESIS 7649
METHYLCHOLANTHRENE
DE NOVO PROTEIN SYNTHESIS OF CYTOCHROME P 450 1817
METHYLENE ATP
SEE ALSO AMP(CH2)PP
METHYLENE TETRAHYDROFOLATE
FOLATE-DEPENDENT RIBOTHYMIDINE BIOSYNTHESIS 7649
METHYLENETETRAHYDROFOLATE DEHYDROGENASE
A MAMMALIAN PROTEIN WITH MULTIPLE CATALYTIC ACTIVITIES 5104
METHYLGALACTOSIDE
ROLES OF INDIVIDUAL MGL GENE PRODUCTS IN ACTIVE TRANSPORT 3112
METHYLGLUCOSE
INSULIN ACTION ON METHYLGLUCOSE EXCHANGE IN FAT CELLS 794
METHYLGLUCOSIDE
REGULATION OF ADENYLATE CYCLASE BY PTS ENZYMES II 2462
METHYLGLUTAMATE SYNTHETASE
NUCLEOPHILIC REACTIONS OF DEAZAFLAVINS 4872
METHYLGLYOXAL SYNTHETASE
CRYSTALLINE METHYLGLYOXAL SYNTHETASE FROM PROTEUS VULGARIS 364
METHYLGUANOSINE
CORRECTION TO MARTIN ET AL VOL. 250 (1975) P. 9322 2539
METHYLATED, BLOCKED 5-PRIME TERMINI OF YEAST M-RNA 2898
FORMATION OF REOVIRUS MRNA TERMINAL SEQUENCE M7-GPPPG-M-PC 5043
MESSENGER RNA (GUANINE-7-)-METHYLTRANSFERASE OF HELA CELLS 5283
METHYLISOCYANATE
METHYLISOCYANATE AS AN ANTI-SICKLING AGENT 6226
METHYLMALONYL CO A
INTERMOLECULR TRITIUM TRANSFER IN TRANSCARBOXYLASE REACTION 902
METHYLMALONYL CO A PYRUVATE CARBOXYTRANSFERASE
SEE ALSO TRANSCARBOXYLASE
METHYLMERCAPTOPURINE RIBONUCLEOSIDE
REGULATION OF DE NOVO PURINE SYNTHESIS IN HUMAN LYMPHOBLASTS 7348
METHYLMERCAPTOPURINE RIBOSIDE
INHIBITION OF PP-RIBOSE-P-SYNTHESIS BY PURINE NUCLEOSIDES 5839
METHYLMETHANE SULFONATE
ENDONUCLEASE II OF E. COLI IS EXONUCLEASE III 1896
METHYLMETHIONINE
MYOGLOBIN WITH 13C IN METHIONINE METHYLS 7452
METHYLTETRAHYDROFOLATE
TRANSPORT AND UTILIZATION OF METHYLTETRAHYDROFOLATES 3405
METHYLTRANSFERASES
CORRECTION TO MARTIN ET AL VOL. 250 (1975) P. 9322 2539
MESSENGER RNA (GUANINE-7-)-METHYLTRANSFERASE OF HELA CELLS 5283
SPECIFICITY OF VACCINIA MRNA GUANYLYL- AND METHYLTRANSFERASE 7313
METHYLURACIL
FOLATE-DEPENDENT RIBOTHYMIDINE BIOSYNTHESIS 7649
METHYLXANTHINE
SEE ALSO ADENYLATE CYCLASE
SEE ALSO THEOPHYLLINE
METYRAPONE
GENETICS OF METYRAPONE AND ETHYL ISOCYANIDE BINDING TO P 450 5397
MEVALONATE
NON-STEROL METABOLISM OF MEVALONATE 2716
MICHAELIS-MENTEN CONSTANT FOR HMG-CO A REDUCTASE 5820
MICELLE
STRUCTURING OF GANGLIOSIDE AGGREGATES 7083
MICHAELIS-MENTEN CONSTANT
SEE ALSO KINETICS
MICHAELIS-MENTEN CONSTANT FOR HMG-CO A REDUCTASE 5820
MICROBODIES
RAT LIVER + KIDNEY PEROXISOMES. GLYOXYLATE AMINOTRANSFERASE 4488
MICROCOCCUS DENITRIFICANS
PARACOCCUS DENITRIFICANS CYTOCHROME C550 SEQUENCE 2197
PARACOCCUS CYTOCHROME C 550 STRUCTURE 4033
MICROCOCCUS LYSODEIKTICUS
FOLATE-DEPENDENT RIBOTHYMIDINE BIOSYNTHESIS 7649
MICROFILAMENTS
SQUID BRAIN MYOSIN 7682
MICROGLOBULIN
IMMUNOADSORBENT PURIFICATION OF HLA ANTIGEN 5427
MICROPEROXIDASE
KINETICS OF CARBOXYHEMOGLOBIN 4267
MICROSOMES
SEE ALSO HYDROXYLASES
SEE ALSO MEMBRANES, MICROSOMAL
SEE ALSO OXYGENASES
SEE ALSO PROTEIN, SYNTHESIS IN VITRO (ANIMAL)
SEE ALSO RIBOSOMES
SEE ALSO SARCOPLASMIC RETICULUM
EFFECTS OF PROTEIN KINASE ON SARCOPLASMIC RETICULUM 725
INHIBITION OF GLUCOSE-6-PHOSPHATASE BY PYRIDOXAL PHOSPHATE 1035
CARBON TETRACHLORIDE AND LIVER MICROSOMAL CALCIUM UPTAKE 1197
CORRECTION TO LU ET AL. VOL. 250 (1975) P. 8283 1219
EFFECT OF INSULIN ON FATTY ACID CO A LIGASE 1488
DE NOVO PROTEIN SYNTHESIS OF CYTOCHROME P 450 1817
THYROID PEROXIDASE AND NONIONIC DETERGENTS 2525
VITAMIN K-DEPENDENT CARBOXYLASE 2770
HETEROGENEITY OF CYTOCHROME P-450 IN RAT TESTIS MICROSOMES 2839
PURIFICATION OF PULMONARY CYTOCHROME P-450 3213
VITAMIN K-DEPENDENT CARBOXYLATION 3269
ANDROGEN BIOSYNTHESIS FROM C-20 DEOXY-C-21 STEROID 3320
BIOSYNTHESIS OF CHOLIC ACID 3495
DIACYLGLYCEROL ACYLTRANSFERASE ACTIVITY OF FAT CELLS 4537
MULTIPLE FORMS OF MOUSE CYTOCHROME P 450 4659
SUBMICROSOMAL LOCALIZATION OF PROLYL HYDROXYLASE 4770
MEMBRANE PERMEABILITY AND MICROSOMAL GLUCOSE-6-PHOSPHATASE 4901
CCL-4 MEDIATED LIPID PEROXIDATION IN ISOLATED LIVER CELLS 4973
MAMMALIAN MEMBRANES WITH ALTERED PHOSPHOLIPID COMPOSITION 5015
MECHANISM OF RAT LIVER MICROSOMAL STEARYL-CO A DESATURASE 5095
SQUFANATANY PROTEIN AND SQUALENE EPOXIDASE 5155
STEROL CARRIER PROTEIN 5496
FAT CELL GLYCEROL-P AND DIHYDROXYACETONE-P ACYLTRANSFERASES 5738
MICHAELIS-MENTEN CONSTANT FOR HMG-CO A REDUCTASE 5820
PEPTIDE SUBSTRATE FOR VITAMIN K DEPENDENT CARBOXYLASE 5827
THYROXINE-INDUCED CHANGES IN AMPHIBIAN LIVER ORGANELLES 6161
SOLUBILIZATION OF VITAMIN K DEPENDENT CARBOXYLASE 6238
PARTICULATE NICOTINIC ACETYLCHOLINE RECEPTOR IN BRAIN 6335
ANOMERIC CONFIGURATION OF D-MANNOSYL RETINYL PHOSPHATE 6465
METHYL STEROL OXIDASE 6638
CHARACTERISTIC TEMPERATURES OF LM CELL MEMBRANES 6739
GLUCOSE 6-PHOSPHATE TRANSPORT AND GLUCOSE-6-PHOSPHATASE 6784
ATPASE OF SARCOPLASMIC RETICULUM 6894
STIMULATION OF CALCIUM PUMP BY MONOVALENT CATIONS 6947
ACYL-CO A DESATURASE OF ADIPOSE TISSUE AND LIVER 7468
SUBCELLULAR SITES OF HEPATIC BINDING PROTEIN 7539

MOLECULAR PROPERTIES OF MICROSOMAL MEMBRANE PROTEINS 7699
LATENCY OF INOSINE 5-PRIME-DIPHOSPHATASE 7821
MICROTUBULES
COLCHICINE INHIBITION OF HEPATIC GLYCOPROTEIN SECRETION 3887
IMMUNOSORPTION OF MICROTUBULE PROTEIN 6135
HORMONE RECEPTORS MICROFILAMENT MICROTUBULE MODIFIER EFFECTS 6844
MILK
SEE ALSO LACTALBUMIN
SEE ALSO MAMMARY GLANDS
BOVINE SECRETORY COMPONENT ISOLATION AND CHARACTERIZATION 1969
BLOOD GROUP ACTIVE GLYCOPROTEIN OF ERYTHROCYTE MEMBRANE 3610
CORTICOSTEROID-BINDING PROTEINS IN COLOSTRUM AND MILK 5272
LIPOPROTEIN LIPASE FROM BOVINE MILK 7791
MINIPRINT
PREPARATION OF YEAST (S. CEREVISIAE) PYRUVATE KINASE 124
AMINO ACID SEQUENCE OF R. GELATINOSA HIPIP 129
ALL RNA SUBUNITS FROM RSV CONTAIN POLY A 150
RESOLUTION OF CYTOCHROME OXIDASES.ENZYMES WITH FIVE SUBUNITS 257
CRYSTALLINE METHYLGLYOXAL SYNTHETASE FROM PROTEUS VULGARIS 364
PURIFICATION OF D-ALANINE CARBOXYPEPTIDASES I FROM E. COLI 414
L-3,4-DEHYDROPROLINE AND COLLAGEN METABOLISM 503
PRIMARY STRUCTURE OF BACILLUS SUBTILIS FLAGELLIN. I. 695
PRIMARY STRUCTURE OF BACILLUS SUBTILIS FLAGELLIN. II. 701
PRIMARY STRUCTURE OF BACILLUS SUBTILIS FLAGELLIN. III. 705
AMINO ACID SEQUENCE OF HUMAN FSH-BETA SUBUNIT 993
ACYLATION OF SUBTILISIN CARLSBERG BY PHENYL ESTERS 1006
CONFORMATIONAL CHANGES IN H3CO FOLLOWING LASER PHOTOLYSIS 1533
LEUCINE AMINOPEPTICASE (BOVINE LENS) COBALT ENZYME 1618
PROPERTIES OF SUCCINYL CO A 3-KETOACID CO A TRANSFERASE 1708
ROOT EFFECT HEMOGLOBIN OF A MARINE FISH 1871
COMPLETE AMINO ACID ANALYSIS OF PROTEINS 1936
PRIMARY STRUCTURE OF STREPTOCOCCAL PROTEINASE. I 1941
PRIMARY STRUCTURE OF STREPTOCOCCAL PROTEINASE. II 1948
HEME REDUCTION IN HUMAN METHEMOGLOBIN 2077
PARACOCCUS DENITRIFICANS CYTOCHROME C550 SEQUENCE 2197
GLUCOSE 6-PHOSPHATE DEHYDROGENASE PURIFICATION 2255
A KINETIC STUDY OF GLUCOSE 6-PHOSPHATE DEHYDROGENASE 2258
ALPHA-METHYLGLUTARATE 2263
SPECIFICITY OF CHYMOTRYPSIN WITH CARBOXYL GROUPS BLOCKED 2353
THYROID PEROXIDASE AND NONIONIC DETERGENTS 2525
CARBON-13 MAGNETIC RESONANCE STUDIES OF HYDROXYETHYLTHIAMIN 2564
BOVINE PLACENTAL LACTOGEN 2703
VITAMIN K-DEPENDENT CARBOXYLASE 2770
HETEROGENEITY OF CYTOCHROME P-450 IN RAT TESTIS MICROSOMES 2839
KINETIC MECHANISM OF LACTOSE SYNTHASE 3003
MITOCHONDRIAL RRNAS IN NEUROSPORA 3081
B. SUBTILIS AND B. STEAROTHERMOPHILUS 5S RNAS 3122
GLUTAMINE-DEPENDENT GLUTAMATE SYNTHASE 3294
REGULATION OF NEUROBLASTOMA ADENYLATE CYCLASE 3399
ANILINE-OXYHEMOGLOBIN INTERACTION 3442
METAL ION ACTIVATION OF GALACTOSYL TRANSFERASE 3645
PROTEIN BINDING TO GALACTOSYLTRANSFERASE 3653
AFFINITY CHROMATOGRAPHY FORMS OF HUMAN PLASMINOGEN + PLASMIN 3693
TRYPTOPHAN SYNTHETASE OF PROTEUS MIRABILIS 3875
UNIQUE PROSTHETIC GROUP OF ERYTHROCYTE HEMOPROTEIN 3927
HETERONEMERTINE POLYPEPTIDE NEUROTOXINS 4184
SUBUNIT COMPOSITION OF EMBRYONIC CHICK LENS S-CRYSTALLIN 4416
STEREOSPECIFICITY IN SPHINGANINE 1-PHOSPHATE LYASE REACTION 4448
CATHEPSIN D FROM PORCINE SPLEEN 4528
INTERACTION OF CYCLIC AMP WITH PROTEIN KINASE 4551
SPHINGANINE KINASE OF BRAIN 4557
BIOCHEMICAL PROPERTIES OF IODO-AMINO-DEOXY UTP 4839
NUCLEOPHILIC REACTIONS OF DEAZAFLAVINS 4872
A MAMMALIAN PROTEIN WITH MULTIPLE CATALYTIC ACTIVITIES 5104
EFFECT OF PYRIDINE DERIVATIVES ON GLUCOSE TRANSPORT 5141
COLLAGEN DEGRADATION BY EXTRACTS OF RAT LIVER LYSOSOMES 5280
OLIGOPEPTIDE TRANSPORT 5360
3-DEOXY-D-ARABINO-HEPTULOSONATE 7-PHOSPHATE SYNTHASE 5446
PH INDUCED STRUCTURAL CHANGES IN PHOSPHOFRUCTOKINASE 5630
SEQUENCE OF CEREBRATULUS LACTEUS NEUROTOXIN B-IV 6025
INTACT MONOMERIC COLLAGEN AND STRUCUTRE OF NONHELICAL ENDS 6062
ACTIVATION AND INHIBITION OF ADENYLATE CYCLASE BY FLUORIDE 6205
IGUANA 5 S RNA NUCLEOTIDE SEQUENCE 6352
REDUCTION OF DISULFIDES IN GLYCOPROTEIN HORMONES 6380
ENZYMATIC REACTIONS OF METHIONINE SULFOXIMINE 6674
2-FLUOROADENOSINE 3,5-MONOPHOSPHATE. CELLULAR FORMATION 6757
AMINO ACID SEQUENCE OF CYTOCHROME B5 6767
L-ASPARAGINASE FROM VIBRIO SUCCINOGENES 6929
IMMUNOCHEMISTRY OF THE SUBUNITS OF TRANSCARBOXYLASE 7021
EQUILIBRIUM CONSTANT OF PHOSPHORYLCHOLINE HYDROLYSIS 7162
FORMATION OF LIPID-LINKED SUGAR COMPOUNDS IN H. SALINARIUM 7289
MYOGLOBIN WITH 13C IN METHIONINE METHYLS 7452
CALCIUM BINDING TO TROPONIN C 7551
PHYSICAL PROPERTIES OF TWO FORMS OF GLUTAMYLTRANSPEPTIDASE 7863
MITOCHONDRIA
SEE ALSO ATPASE
SEE ALSO DNA, MITOCHONDRIAL
SEE ALSO MEMBRANES, MITOCHONDRIAL
MITOCHONDRIAL POLYSOMES 188
RESOLUTION OF CYTOCHROME OXIDASES.ENZYMES WITH FIVE SUBUNITS 257
CYTOCHROME OXIDASE WITH FOUR POLYPEPTIDE SUBUNITS 270
EFFECT OF HYDROGEN SHUTTLES ON FATTY ACID OXIDATION 277
ADP-ATP TRANSPORT IN RICKETTSIAE 389
AVIAN MITOCHONDRIAL GLUTAMINE METABOLISM 701
ATP-DEPENDENT PROPERTIES OF MITOCHONDRIA 934
CARBAMYL PHOSPHATE SYNTHETASE FROM RAT LIVER MITOCHONDRIA 950
STOICHIOMETRY OF PROTON EJECTION DURING CALCIUM UPTAKE 968
AMINOLEVULINIC ACID SYNTHASE OF LIVER 1340
AMINOLEVULINIC ACID SYNTHASE 1347
LOCATION OF MITOCHONDRIAL PROTEINS BY LABELING REAGENTS 1354
REGULATION OF PYRUVATE DEHYDROGENASE 1364
RAT LIVER MITOCHONDRIAL ALDEHYDE DEHYDROGENASE 1571
ARGINYL RESIDUES OF MITOCHONDRIAL ATPASE 1775
CORRECTION TO GARRETT + PENEFSKY VOL. 250 (1975) P.6640 1846
YEAST CYTOCHROME C1 1991
YEAST CYTOCHROME C1 1997
ADRENAL CLEAVAGE OF A 20-PHENYL ANALOG OF CHOLESTEROL 2087
BIOCHEMICAL AND ULTRASTRUCTURE CHANGES IN B12 DEFICIENCY 2147
BIOCHEMICAL AND ULTRASTRUCTURE CHANGES IN B12 DEFICIENCY 2155
ASCARIS NADH NAD-PLUS TRANSHYDROGENASE 2217
PROTON TRANSLOCATING ATPASE 2453
HUMAN CYTOPLASMIC AND MITOCHONDRIAL DEOXYTHYMIDINE KINASE 2688
CARBON MONOXIDE BINDING BY CYTOCHROME C OXIDASE 2861
MITOCHONDRIAL DNA SYNTHESIS IN MOUSE L-CELLS 2938
MITOCHONDRIAL RRNAS IN NEUROSPORA 3081
GLYCINE + L-GLUTAMINE SPECIFIC ACYL-CO A NIACYLTRANSFERASES 3352
REGULATORY PROPERTIES OF ASCARIS NAD-MALIC ENZYME 3599
ASPARAGUSATE DEHYDROGENASES AND LIPOYL DEHYDROGENASE 3637
LIGAND BINDING TO TWO ADRENAL MITOCHONDRIAL P450 CYTOCHROMES 3706
PROTOPORPHYRINOGEN OXIDASE ACTIVITY IN LIVER MITOCHONDRIA 3730
ISOLATION OF CHICK RENAL MITOCHONDRIAL FERREDOXIN 3933
ADRENODOXIN REDUCTASE INTERACTION WITH PYRIDINE NUCLEOTIDES 4299
THE INFLUENCE OF HLB AND CMC ON DISRUPTION OF MEMBRANES 4442
HEPATIC MITOCHONDRIAL ACETALDEHYDE OXIDATION 4908
CCL-4 MEDIATED LIPID PEROXIDATION IN ISOLATED LIVER CELLS 4973
DELTA-9-TETRAHYDROCANNABINOL AND NADH-OXIDASE 5402
MAMMALIAN MEMBRANES WITH ALTERED PHOSPHOLIPID COMPOSITION 5015
CALCIUM-INDUCED TRANSITION IN MITOCHONDRIA 5069
CATION EFFECTS ON STEADY STATE MITOCHONDRIAL CALCIUM UPTAKE 5251
ETHANOL OXIDATION BY RAT HEPATOCELLULAR CARCINOMA 5366
CO A/AC-CO A,NAD/NADH RATIOS + HEART PYRUVATE DEHYDROGENASE 5403
STOICHIOMETRY OF MITOCHONDRIAL PROTON EJECTION 5670
ADRENAL MITOCHONDRIAL P 450 6468
MITOCHONDRIAL INNER MEMBRANE SYNTHESIS IN CULTURED OOCYTES 6097
THYROXINE-INDUCED CHANGES IN AMPHIBIAN LIVER ORGANELLES 6161
MITOCHONDRIAL UPTAKE OF HYDROXOCOBALAMIN 6616
MITOCHONDRIAL CARNITINE ACYCARNITINE TRANSLOCASE 6683
IMP-P(NH)P INHIBITION OF ATPASE 6705
CHARACTERISTIC TEMPERATURES OF LM CELL MEMBRANES 6739
TIGHTLY BOUND NUCLEOTIDES IN MITOCHONDRIAL ATPASE 7103
TIGHTLY BOUND NUCLEOTIDES IN ETPH 7110
TEMPERATURE EFFECTS ON ADRENAL CORTICAL CYT P-450SCC 7128
MITOCHONDRIAL H+/SITE RATIO 7442
ADRENODOXIN REDUCTASE ADRENODOXIN 1 1 COMPLEX+ PROPERTIES 7545
MITOCHONDRIA, OOCYTE
MITOCHONDRIAL INNER MEMBRANE SYNTHESIS IN CULTURED OOCYTES 6097
MITOGENS
SEE ALSO CONCANAVALIN A
SEE ALSO LECTINS
SEE ALSO WHITE BLOOD CELLS
INSULIN BINDING TO CHICK EMBRYO FIBROBLASTS 6445
MITOSIS
SEE ALSO CELL CYCLE
MIXED FUNCTION OXIDASES
SEE ALSO CYTOCHROME P 450
SEE ALSO HYDROXYLASES
SEE ALSO OXYGENASES
MOLECULAR WEIGHT
SEE ALSO PROTEIN, SUBUNITS
SEE ALSO ULTRACENTRIFUGATION
MOLYBDENUM
NITRATE REDUCTASE FROM ESCHERICHIA COLI 2287
EPR OF TUNGSTEN-CONTAINING SULFITE OXIDASE 9585
MONOCYTES
LYMPHOCYTE CYCLIC AMP PHOSPHODIESTERASE 4922
MONOLAYERS
COMPARATIVE STUDIES OF LIPASE AND PHOSPHOLIPASE A2 3128
MONOMETHYLAMMONIUM ION
CONFORMATIONS OF PYRUVATE KINASE BY MONOVALENT CATIONS 73
MONOOXYGENASES
SEE ALSO CYTOCHROME P 450
SEE ALSO HYDROXYLASES
SEE ALSO OXYGENASES
MORPHINE
FLUORESCENT IMMUNOCHEMICAL METHOD EMPLOYING ENERGY TRANSFER 4172
MOTILITY
NUCLEOTIDE METABOLIZING ENZYMES IN CHLAMYDOMONAS FLAGELLA 182
MOUSE
RAT OLFACTORY MARKER PROTEIN 6232
MRNA
SEE ALSO RNA, MESSENGER
MUCINS
ENDO-BETA-GALACTOSIDASE ACTING ON BLOOD GROUP SUBSTANCES 3683
MUCOPOLYSACCHARIDES
BIOSYNTHESIS OF CHONDROITIN SULFATE 3942
GLUCOSE EFFECT ON KINETICS OF MUCOPOLYSACCHARIDE SYNTHESIS 6210
MUCOSA
SEE ALSO STOMACH
MULTIFUNCTIONAL ENZYMES
A MAMMALIAN PROTEIN WITH MULTIPLE CATALYTIC ACTIVITIES 5184
MURAMIC LACTAM
CONDITIONAL SPORE CORTEX-LESS MUTANTS OF B. SPHAERICUS 1493
CORRECTION TO IHAE AND STROMINGER VOL. 251 (1976) P. 1493 3839
MUSCARINE
MUSCARINIC ACETYLCHOLINE RECEPTOR FROM RAT BRAIN 1543
MUSCLE CELL CULTURES
BIOSYNTHESIS OF CALSEQUESTRIN 7733
MUSCLE, CARDIAC
CYTOCHROME C1-CYTOCHROME C COMPLEX 29
EFFECTS OF PROTEIN KINASE ON SARCOPLASMIC RETICULUM 725
CARDIAC TROPONIN 866
CORRECTION TO GARRETT + PENEFSKY VOL. 250 (1975) P.6640 1846
ACCUMULATION OF PHOSPHOCYCLOCREATINE IN CHICK MUSCLE 2049
ADENINE NUCLEOTIDE TRANSPORT 2446
CARBON MONOXIDE BINDING BY CYTOCHROME C OXIDASE 2861
GLYCOGENOLYSIS AND CARDIAC SARCOPLASMIC RETICULUM 3140
SUBUNIT INTERACTIONS OF PHOSPHO- + DEPHOSPHO- PROTEIN KINASE 3375
FRUCTOSE 6-SULFATE AS A SUBSTRATE OF PHOSPHOFRUCTOKINASE 3664
STIMULATORY MODULATOR OF PROTEIN KINASE 4283
AMINOLEVULINIC ACID SYNTHETASE IN THE HEART 4996
DNA SYNTHESIS AND CELL DIFFERENTIATION IN CARDIAC MUSCLE 6092
MITOCHONDRIAL CARNITINE ACYCARNITINE TRANSLOCASE 6683
ATPASE OF SARCOPLASMIC RETICULUM 6894
CALF BETA-GALACTOSIDE BINDING LECTINS 7581
MUSCLE, SKELETAL
SEE ALSO MYOSIN
MECHANISM OF OXALACETATE DECARBOXYLASE 69
TRYPTIC FRAGMENTS OF SARCOPLASMIC RETICULUM ATPASE 712
EFFECTS OF PROTEIN KINASE ON SARCOPLASMIC RETICULUM 725
AMINO ACID RELEASE IN SKELETAL MUSCLE 826
AMINO ACID RELEASE IN SKELETAL MUSCLE 836
AMINO ACID RELEASE IN SKELETAL MUSCLE 844
AMINO ACID RELEASE IN SKELETAL MUSCLE 851
SIDEDNESS OF MEMBRANE PHOSPHORYLATION DURING ATP SYNTHESIS 1413
TROPONIN-C-LIKE PROTEIN IN BOVINE ADRENAL MEDULLA 1603
SUBUNIT STRUCTURE OF AMP-DEAMINASE 1847
BIOSYNTHESIS OF THE ATPASE OF SARCOPLASMIC RETICULUM 2038
ARRANGEMENT OF PROTEINS IN SARCOPLASMIC RETICULUM 2037
ACCUMULATION OF PHOSPHOCYCLOCREATINE IN CHICK MUSCLE 2049
ATP SYNTHESIS IN SARCOPLASMIC RETICULUM VESICLES 2095
ANALYSIS OF INTACT MUSCLE BY 31P NUCLEAR MAGNETIC RESONANCE 2584
RECONSTITUTION OF A CALCIUM PUMP IN SARCOPLASMIC RETICULUM 3169
CARBAMATE IN GLYCYLGLYCINE PLASMA AND TISSUE EXTRACTS 4398
ENZYMOLOGICAL STUDIES ON HEREDITARY AVIAN DYSTROPHY 4468
AUTOACTIVATION OF PHOSPHORYLASE KINASE 4521
PURIFICATION AND CHARACTERIZATION OF ACANTHAMOEBA ACTIN 4778
LIGAND INDUCED STRUCTURAL CHANGES IN PHOSPHOFRUCTOKINASE 5637
5-NUCLEOTIDASE IN PERFUSED HEART, SKELETAL MUSCLE AND LIVER 6372
PROPERTIES OF PURIFIED ALPHA ACTININ 6860
ATPASE OF SARCOPLASMIC RETICULUM 6894
STIMULATION OF CALCIUM PUMP BY MONOVALENT CATIONS 6947
CONTROL OF PHOSPHOFRUCTOKINASE FROM SKELETAL MUSCLE 7322

POLYMERIZATION OF ACANTHAMOEBA ACTIN 7474
CYTOPLASMIC NONPOLYSOMAL MYOSIN HEAVY CHAIN MRNP 7600
MUSCLE, SMOOTH
PURIFICATON AND PROPERTIES OF FILAMIN 6562
IDENTIFICATION OF ALPHA-ADRENERGIC RECEPTORS 6915
MUSCULAR DYSTROPHY
ENZYMOLOGICAL STUDIES ON HEREDITARY AVIAN DYSTROPHY 4468
MUSHROOMS
SURFACE ALTERATIONS IN PERIODATE-OXIDIZED LYMPHOCYTES 1864
BETA-MANNOSIDASE FROM THE MUSHROOM POLYPORUS SULFUREUS 4384
MUTAGENESIS
CONTROL OF MONOOXYGENASE AND EPOXIDE HYDRATASE 79
ENZYME MEDIATED MUTAGENESIS OF BENZPYRENE 4882
C8120 ANTIMUTATOR T4 DNA POLYMERASE 5219
NUCLEOTIDE SELECTION BY T4 DNA POLYMERASES 5225
MUTATIONS
SEE ALSO GENES
SEE ALSO GENETICS
SEE ALSO HEMOGLOBIN
SEE ALSO MUTAGENESIS
SEE ALSO SOMATIC CELL MUTATIONS
PURIFICATION AND PROPERTIES OF ANTIMUTATOR DNA POLYMERASE 2475
TEMPERATURE SENSITIVITY OF ANTIMUTATOR DNA POLYMERASE 2480
LAC REPRESSOR QUATERNARY STRUCTURE 3359
STEREOSPECIFIC BINDING TO TGDD BY HEPATIC CYTOSOL 4936
THYROID HORMONES AND BRAIN FATTY ACID ALPHA HYDROXYLATION 5237
MYCOBACTERIUM PHLEI
ACTIVE TRANSPORT OF AMINO ACIDS IN MYCOBACTERIUM PHLEI 2493
MYELIN
TOPOGRAPHY OF GLYCOPROTEINS IN THE INTACT MYELIN SHEATH 153
MICROHETEROGENEITY OF MYELIN BASIC PROTEIN 2671
ORGANIZATION OF MEMBRANE PROTEINS IN INTACT MYELIN SHEATH 4729
THYROID HORMONES AND BRAIN FATTY ACID ALPHA HYDROXYLATION 5237
MYELOBLASTOSIS VIRUS
SEE ALSO AVIAN MYELOBLASTOSIS VIRUS
SEE ALSO VIRUSES, ANIMAL
MYELOMA
SEE ALSO PLASMACYTOMA CELLS
MYELOPEROXIDASE
CHLORIDE PEROXIDATION BY MYELOPEROXIDASE 1371
CORRECTION TO HARRISON + SCHULTZ VOL. 251 (1976) P. 1371 3197
MYOBLAST CELLS
SEE ALSO MUSCLE, SKELETAL
BIOSYNTHESIS OF THE ATPASE OF SARCOPLASMIC RETICULUM 2838
MYOFIBRILS
SEE ALSO MUSCLE, SKELETAL
MYOGENESIS
BIOSYNTHESIS OF CALSEQUESTRIN 7733
MYOGLOBIN
REACTIONS OF RECONSTITUTED MYOGLOBINS WITH O2 AND CO 1418
PROPERTIES OF FERRIC MYOGLOBINS CONTAINING FORMYLHEMES 2664
KINETICS OF DISSOCIATION OF NITRIC OXIDE FROM HEMOGLOBIN 2788
HYDROXYLASE ACTIVITY OF HEMOGLOBIN 3436
TITRATION OF TYROSINES IN MYOGLOBINS 5187
MYOGLOBIN WITH 13C IN METHIONINE METHYLS 7452
MYOSIN
CARDIAC TROPONIN 866
THE MNADP COMPLEX WITH MYOSIN SUBFRAGMENT 1 1975
CHEMICAL CROSS-LINKING OF MYOSIN 2825
SEPARATION OF DIFFERENT MYOSINS BY ATP AND ACTIN COLUMNS 3972
MYOSIN LIGHT CHAIN MODIFICATION+ EFFECT ON ACTIN BINDING 5424
INTERACTIONS OF ACTIN AND NUCLEOTIDE BINDING SITES ON MYOSIN 6170
PURIFICATON AND PROPERTIES OF FILAMIN 6562
CALORIMETRIC STUDIES OF THE INTERACTION OF MYOSIN WITH ADP 7499
CYTOPLASMIC NONPOLYSOMAL MYOSIN HEAVY CHAIN MRNP 7600
SQUID BRAIN MYOSIN 7682
MYOTOXIN
NEUROTOXIC PHOSPHOLIPASE A SEQUENCE 7343

N

N-ACETYL-GALACTOSAMINE
SEE ALSO ACETYLGALACTOSAMINE
SEE ALSO GALACTOSAMINE, N-ACETYL
NAD
SEE ALSO SPECIFIC ENZYME
RAT LIVER MITOCHONDRIAL ALDEHYDE DEHYDROGENASE 1571
HYDROGEN EXCHANGE IN REDUCED PYRIDINE NUCLEOTIDES 1785
ASCARIS NADH NAD-PLUS TRANSHYDROGENASE 2217
NADH ACTIVATED PHOSPHOENOLPYRUVATE CARBOXYLASE 2754
PRODUCTS OF LIMITED PROTEOLYSIS OF DNA LIGASE 3432
REGULATORY PROPERTIES OF ASCARIS NAD-MALIC ENZYME 3599
ASPARAGUSATE DEHYDROGENASES AND LIPOYL DEHYDROGENASE 3637
NICOTINAMIDE ADENINE DINUCLEOTIDE OXIDATION BY SUPEROXIDE 3841
RATE-LIMITING STEPS FOR ALDEHYDE DEHYDROGENASE REACTIONS 3853
GLUCOSE UTILIZATION AND NAD/NADH POTENTIALS 4127
HEPATIC MITOCHONDRIAL ACETALDEHYDE OXIDATION 4908
CO A/AC-CO A,NAD/NADH RATIOS + HEART PYRUVATE DEHYDROGENASE 5483
A COVALENT FLAVIN ADDUCT IN LIPOAMIDE DEHYDROGENASE 7726
NADH
EFFECT OF HYDROGEN SHUTTLES ON FATTY ACID OXIDATION 277
INDOLE-3-ACETALDEHYDE REDUCTASES 907
REGULATION OF PYRUVATE DEHYDROGENASE 1364
ASCARIS NADH NAD-PLUS TRANSHYDROGENASE 2217
CELL-FREE HYDROGENATION OF C18-9, TRANS-11-OCTADECADIENOATE 2241
NADH ACTIVATED PHOSPHOENOLPYRUVATE CARBOXYLASE 2754
GLUCOSE UTILIZATION AND NAD/NADH POTENTIALS 4127
ADRENODOXIN REDUCTASE INTERACTION WITH PYRIDINE NUCLEOTIDES 4299
A RESPIRATION-DEFICIENT CHINESE HAMSTER CELL LINE 4588
CO A/AC-CO A,NAD/NADH RATIOS + HEART PYRUVATE DEHYDROGENASE 5483
PURIFICATION OF E. COLI RESPIRATORY CHAIN NADH DEHYDROGENASE 5911
ADRENODOXIN REDUCTASE ADRENODOXIN 1 1 COMPLEX+ PROPERTIES 7545
SQUID MANTLE MUSCLE ADENYLATE KINASE 7810
NADH DEHYDROGENASE
PURIFICATION OF E. COLI RESPIRATORY CHAIN NADH DEHYDROGENASE 5911
KINETIC AND IMMUNOLOGICAL STUDY OF NADH DEHYDROGENASE 5921
NADH OXIDASE
DELTA-9-TETRAHYDROCANNABINOL AND NADH-OXIDASE 5802
PURIFICATION OF E. COLI RESPIRATORY CHAIN NADH DEHYDROGENASE 5911
KINETIC AND IMMUNOLOGICAL STUDY OF NADH DEHYDROGENASE 5921
EFFECT OF LIPIDS ON RECONSTITUTION OF MEMBRANE VESICLES 6662
NADP
HYDROGEN EXCHANGE IN REDUCED PYRIDINE NUCLEOTIDES 1785
GLUCOSE 6-PHOSPHATE DEHYDROGENASE PURIFICATION 2255
A KINETIC STUDY OF GLUCOSE 6-PHOSPHATE DEHYDROGENASE 2258
FUNCTIONAL ARGININE RESIDUE OF GLUTAMATE DEHYDROGENASE 5435
KINETIC EPR AND NMR STUDIES OF MALIC ENZYME 6574
6-PHOSPHOGLUCONATE DEHYDROGENASE 7127
NADP-BINDING
FUNCTIONAL ARGININE RESIDUE OF GLUTAMATE DEHYDROGENASE 5835
NADPH
INDOLE-3-ACETALDEHYDE REDUCTASES 907
GLUCOSE 6-PHOSPHATE DEHYDROGENASE PURIFICATION 2255
A KINETIC STUDY OF GLUCOSE 6-PHOSPHATE DEHYDROGENASE 2258
BOVINE LENS ALDOSE REDUCTASE, PHYSICAL, KINETIC PROPERTIES 2696
APOGLUTAMATE SYNTHASE AND GLUTAMATE DEHYDROGENASE 3300
CYTOCHROME P 450 REDUCTION 4610
ADRENODOXIN REDUCTASE INTERACTION WITH PYRIDINE NUCLEOTIDES 4299
SUBUNIT STRUCTURE OF CHICKEN LIVER FATTY ACID SYNTHETASE 5352
6-PHOSPHOGLUCONATE DEHYDROGENASE 7127
NADPH OXIDASE
ETHANOL OXIDATION BY RAT HEPATOCELLULAR CARCINOMA 5366
NAPHTHOFLAVONE
DE NOVO PROTEIN SYNTHESIS OF CYTOCHROME P 450 1817
TWO HOMOGENEOUS FORMS OF LIVER MICROSOMAL CYTOCHROME P 450 7929
NAPHTHOQUINONE 2-SULFONATE
SUPEROXIDE ANION AND DRUG INDUCED HEMOLYSIS 6468
NEMERTINES
HETERONEMERTINE POLYPEPTIDE NEUROTOXINS 4184
NEOPTERIN
CHARACTERISTICS OF GTP CYCLOHYDROLASE I 5087
NERVE CELLS
SEE ALSO BRAIN
SEE ALSO NEURONES
INCREASED CELL ECTO-PYROPHOSPHATASE UPON SIALIC ACID RELEASE 493
NERVE GROWTH FACTOR
ESTEROPEPTIDASES OF NERVE AND EPIDERMAL GROWTH FACTORS 165
NERVE GROWTH FACTOR IN DILUTE SOLUTION 459
PROPERTIES OF NGF RECEPTORS IN EMBRYONIC BRAIN 1516
DEVELOPMENT OF NGF RECEPTORS IN EMBRYONIC BRAIN 1524
SOLUBILIZED NGF RECEPTORS 5680
NERVES
SEE ALSO BRAIN
TOPOGRAPHY OF GLYCOPROTEINS IN THE INTACT MYELIN SHEATH 153
DISTRIBUTION OF NEUROTENSIN 7045
NEUROTOXIC PHOSPHOLIPASE A SEQUENCE 7343
SQUID BRAIN MYOSIN 7682
NERVONIC ACID
THYROID HORMONES AND BRAIN FATTY ACID ALPHA HYDROXYLATION 5237
NEURAMINIC ACID, N-ACETYL
SEE ALSO GLYCOPROTEINS
BIOSYNTHESIS OF SIALOSYLGALACTOSYLCERAMIDE 198
INCREASED CELL ECTO-PYROPHOSPHATASE UPON SIALIC ACID RELEASE 493
AGLYCOSYLANTIBODY SURVIVAL IN THE CIRCULATION 1074
A HEPATIC BINDING PROTEIN FOR ASIALOGLYCOPROTEINS 1296
SURFACE ALTERATIONS IN PERIODATE-OXIDIZED LYMPHOCYTES 1864
AFFINITY CHROMATOGRAPHY FORMS OF HUMAN PLASMINOGEN + PLASMIN 3693
COLCHICINE INHIBITION OF HEPATIC GLYCOPROTEIN SECRETION 3887
CARBOHYDRATE STRUCTURE OF HEPATIC BINDING PROTEIN 5292
MEMBRANE GLYCOPROTEINS OF EN(A-) ERYTHROCYTES 6108
STRUCTURING OF GANGLIOSIDE AGGREGATES 7683
GANGLIOSIDES OF HUMAN KIDNEY 7517
SUBCELLULAR SITES OF HEPATIC BINDING PROTEIN 7539
CALF BETA-GALACTOSIDE BINDING LECTINS 7581
NEURAMINIC ACID, N-GLYCOLYL
SURFACE ALTERATIONS IN PERIODATE-OXIDIZED LYMPHOCYTES 1864
NEURAMINIDASE
SURFACE ALTERATIONS IN PERIODATE-OXIDIZED LYMPHOCYTES 1864
NEUROBLASTOMA CELLS
GLYCOGEN METABOLISM IN ASTROCYTOMA AND NEUROBLASTOMA CELLS 2015
PGE1 RECEPTORS AND ADENYLATE CYCLASE IN CULTURED CELLS 3037
REGULATION OF NEUROBLASTOMA ADENYLATE CYCLASE 3399
GANGLIOSIDE BIOSYNTHESIS IN N841A MOUSE NEUROBLASTOMA CELLS 7626
NEUROBLASTS
SEE ALSO NERVE CELLS
NEURONS
SEE ALSO BRAIN
SEE ALSO NERVES
HETERONEMERTINE POLYPEPTIDE NEUROTOXINS 4184
NEUROPHYSIN
CHARACTERIZATION OF PORCINE NEUROPHYSIN III 2735
BINDING OF POLYPEPTIDE HORMONES TO BOVINE NEUROPHYSINS 2929
HORMONE BINDING EFFECTS ON NEUROPHYSIN QUATERNARY STRUCTURE 3965
NEUROSECRETORY GRANULES
CHARACTERIZATION OF PORCINE NEUROPHYSIN III 2735
NEUROSPORA CRASSA
NONSPECIFIC CLEAVAGE OF PHI-X 174 RF I BY N. CRASSA NUCLEASE 530
MITOCHONDRIAL RRNAS IN NEUROSPORA 3081
COMPARTMENTATION OF ORNITHINE IN NEUROSPORA 3948
HISTONES OF NEUROSPORA CRASSA 4131
NEUROSPORA CRASSA GLUTAMINE SYNTHETASE 4787
FUNCTIONAL ARGININE RESIDUE OF GLUTAMATE DEHYDROGENASE 5835
NEUROTENSIN
RADIOIMMUNOASSAY FOR NEUROTENSIN 7035
DISTRIBUTION OF NEUROTENSIN 7045
INTESTINAL NEUROTENSIN 7053
NEUROTOXINS
SEE ALSO TOXINS
HETERONEMERTINE POLYPEPTIDE NEUROTOXINS 4184
SEQUENCE OF CEREBRATULUS LACTEUS NEUROTOXIN B-IV 6025
NEUROTOXIC PHOSPHOLIPASE A SEQUENCE 7343
NEUROTRANSMITTERS
ADENYLATE CYCLASE ACTIVITY IN SECRETORY VESICLES 2179
NICKEL
PRONASE CARBOXYPEPTIDASE 204
REVERSIBLE RESOLUTION OF A MANGANIC SUPEROXIDE DISMUTASE 1217
CORRECTION TO OSE AND FRIDOVICH VOL. 251 (1976) P. 1217 4796
NICOTINAMIDE ADENINE DINUCLEOTIDE
SEE ALSO NAD
SEE ALSO NADH
NICOTINATE
LEGHEMOGLOBIN AND ITS COMPLEXES WITH NICOTINATE AND ACETATE 6090
NICOTINIC ACETYLCHOLINE RECEPTOR
PURIFIED NICOTINIC ACETYLCHOLINE RECEPTOR FROM BRAIN 6327
NITRATE ESTERS
A MECHANISM FOR THE GLUTATHIONE TRANSFERASES 6183
NITRATE REDUCTASE
NITRATE REDUCTASE FROM ESCHERICHIA COLI 2207
A MECHANISM FOR THE GLUTATHIONE TRANSFERASES 6183
NITRATION
SEE ALSO TETRANITROMETHANE
NITRATION AND ACTIVITY OF LUTROPIN 316
NITRIC OXIDE
EPR STUDY OF NITROSYL-TRYPTOPHAN-2,3-DIOXYGENASE 1578
KINETICS OF DISSOCIATION OF NITRIC OXIDE FROM HEMOGLOBIN 2788
KINETICS OF CARBOXYHEMOGLOBIN 4267
LIGAND BINDING TO ALPHA AND BETA CHAINS OF HEMOGLOBIN 4379
NITROETHANE
PROPERTIES OF 2-NITROPROPANE DIOXYGENASE 6994
NITROGEN FIXATION
METABOLISM OF RADIOACTIVE DINITROGEN BY A CYANOBACTERIUM 5027
NITROGEN-13
METABOLISM OF RADIOACTIVE DINITROGEN BY A CYANOBACTERIUM 5027

NITROPHENYLACETATE
SEE ALSO ESTERASES
NITROPHENYLGUANIDINOBENZOATE
ACTIVATION OF DOG PLASMINOGEN BY STREPTOKINASE 6624
NITROPHENYLPHOSPHATE
NUCLEOSIDE PHOSPHOTRANSFERASE FROM ERWINIA HERBICOLA 2330
ETHOXYFORMYLATION OF SARCOPLASMIC RETICULUM VESICLES 4322
NITROPROPANE
PROPERTIES OF 2-NITROPROPANE DIOXYGENASE 6994
NITROTYROSINE
SYNTHESIS OF C. ACIDI-URICI FERREDOXIN DERIVATIVES 1675
MIDPOINT REDUCTION POTENTIAL OF C. ACIDI-URICI FERREDOXIN 1683
NMR
SEE ALSO NUCLEAR MAGNETIC RESONANCE
NOMENCLATURE
INSTRUCTIONS TO AUTHORS 1
RECOMMENDATIONS FOR PRESENTING BIOCHEMICAL EQUILIBRIUM DATA 6879
NON-HISTONE PROTEINS
NON-HISTONES ARE POSITIVE REGULATION OF OVALBUMIN GENE 6475
NON-OXIDATIVE FLAVOENZYME
DEAZAFAD-GLYOXALATE CARBOLIGASE 329
NONAQUEOUS FRACTIONATION
NUCLEAR LOCATION OF MAMMALIAN DNA POLYMERASE ACTIVITIES 7893
NOREPINEPHRINE
AMINO ACID RELEASE IN SKELETAL MUSCLE 851
GLYCOGEN METABOLISM IN ASTROCYTOMA AND NEUROBLASTOMA CELLS 2015
CATECHOLAMINE INACTIVATION OF PHENYLALANINE HYDROXYLASE 3671
NORLEUCINE (IN PROTEINS)
PROPERTIES OF SYNTHETIC PARATHYROID HORMONE ANALOGUES 159
NOTECHIS SCUTATUS SCUTATUS
NEUROTOXIC PHOSPHOLIPASE A SEQUENCE 7343
NOVIKOFF ASCITES HEPATOMA
SEE ALSO HEPATOMA CELLS
NUCLEAR MAGNETIC RESONANCE
ZINC-CHLORIDE ION EXCHANGE RATES IN CARBOXYPEPTIDASE A 483
31-P NMR OF PHOSPHATE COMPLEXES OF PHOSPHATASE 1207
MAGNETIC RESONANCE PROBE (19-F) IN ASPARTATE TRANSAMINASE 1853
THE MNADP COMPLEX WITH MYOSIN SUBFRAGMENT 1 1975
TRANSMEMBRANE ASYMMETRY OF PHOSPHATIDYLCHOLINE VESICLES 2110
13C NMR SPECTROSCOPY 2248
CONFORMATION OF ATP ON PYRUVATE KINASE 2412
NMR STUDIES OF INTERACTION OF CR-ATP WITH PYRUVATE KINASE 2421
SUBSTRATE CONFORMATIONS ON PYRUVATE KINASE 2431
CARBON-13 MAGNETIC RESONANCE STUDIES OF HYDROXYETHYLTHIAMIN 2564
ANALYSIS OF INTACT MUSCLE BY 31P NUCLEAR MAGNETIC RESONANCE 2584
ASSIGNMENT OF RNASE NMR RESONANCES 2644
CONFORMATION OF S-PROTEIN 2648
STRUCTURE OF CREATINE KINASE-SUBSTRATE COMPLEXES 2777
TITRATION OF TYROSINES IN MYOGLOBINS 5187
BINDING OF CARBAMYL PHOSPHATE TO ASPARTATE TRANSCARBAMYLASE 5966
13C NMR AND ASPARTATE TRANSCARBAMYLASE 5976
INTACT MONOMERIC COLLAGEN AND STRUCUTRE OF NONHELICAL ENDS 6662
DMR OF ANIMAL CELLS 6147
CARBON 13 NMR STUDY OF REACTION OF LYSOZYME WITH IODINE 6522
KINETIC EPR AND NMR STUDIES OF MALIC ENZYME 6574
8-ALKYLAMINOADENYL NUCLEOTIDES AND DEHYDROGENASE BINDING 6791
INTERACTION OF ORGANOPHOSPHATES WITH HEMOGLOBINS 6815
PHOSPHOROUS MAGNETIC RESONANCE STUDY OF ARGININE KINASE 6981
RELATIVE OXYGEN BINDING TO SUBUNITS OF HEMOGLOBIN A BY NMR 7114
MYOGLOBIN WITH 13C IN METHIONINE METHYLS 7452
C13 NMR STUDY-NONENZYMATIC REACTIONS OF PLP WITH AMINO ACIDS 7661
NUCLEAR RELAXATION
SEE ALSO NUCLEAR MAGNETIC RESONANCE
NUCLEASES
SEE ALSO DNASE
SEE ALSO ENDONUCLEASES
SEE ALSO POLYNUCLEOTIDE PHOSPHORYLASE
SEE ALSO RNASE
NONSPECIFIC CLEAVAGE OF PHI-X 174 RF I BY N. CRASSA NUCLEASE 530
FIDELITY OF DNA REPLICATION 975
ON THE FIDELITY OF DNA REPLICATION 982
KINETICS OF NULCEASE O AND NUCLEASE INHIBITOR OF ASPERGILLUS 2808
PHYSICAL AND CATALYTIC PROPERTIES OF ECO-RI ENDONUCLEASE 5866
HEMOPHILUS EXO V ACTIVITY ON CROSS-LINKED DNA 6117
DNA DEGRADATION BY HEMOPHILUS EXONUCLEASE B 6127
NUCLEI
SEE ALSO CHROMATIN
SEE ALSO DNA
SEE ALSO HISTONES
SEE ALSO PROTEIN, NUCLEAR
RECEPTOR-STEROID COMPLEX INTERACTIONS WITH ACCEPTOR SITES 334
NUCLEAR ESTROGEN RECEPTOR AND INITIATION OF RNA SYNTHESIS 516
NON-HISTONE CHROMOSOMAL PROTEINS FROM HELA CELLS 548
DNA KINASE FROM NUCLEI OF RAT LIVER 1767
MECHANISM OF RECEPTOR ACTIVATION 4758
PROGESTERONE BINDING BY RABBIT AND GUINEA PIG UTERINE NUCLEI 5687
THYROXINE-INDUCED CHANGES IN AMPHIBIAN LIVER ORGANELLES 6161
ENDORIBONUCLEASE FROM HELA CELL NUCLEI 7132
H5 HISTONE AND DNA-RELAXING ENZYME OF CHICKEN ERYTHROCYTES 7363
PURIFICATION OF AN ENDONUCLEASE FROM NUCLEI OF 3T3 CELLS 7746
NUCLEAR LOCATION OF MAMMALIAN DNA POLYMERASE ACTIVITIES 7893
NUCLEIC ACID, PROTEIN INTERACTIONS
SEE ALSO DNA, BINDING PROTEIN
NUCLEOHISTONES
SEE ALSO HISTONES
NUCLEOLI
STOICHIOMETRY OF HELA NUCLEOLAR RIBOSOMAL PROTEINS 2867
EXCHANGE AND STABILITY OF HELA RIBOSOMAL PROTEINS IN VIVO 2876
ENDORIBONUCLEASE FROM HELA CELL NUCLEI 7132
NUCLEOPROTEINS
SEE ALSO CHROMATIN
NUCLEOSIDE DIPHOSPHOKINASE
NUCLEOTIDE METABOLIZING ENZYMES IN CHLAMYDOMONAS FLAGELLA 182
NUCLEOSIDE PHOSPHORYLASE
AMMONIA PRODUCTION IN BRAIN 485
ENZYMES INVOLVED IN VESICLE TRANSPORT 1181
NUCLEOSIDE PHOSPHOTRANSFERASE
NUCLEOSIDE PHOSPHOTRANSFERASE FROM ERWINIA HERBICOLA 2330
NUCLEOSIDE TRIPHOSPHATE PHOSPHOHYDROLASE
SEE ALSO ATPASE
NUCLEOSIDES
INHIBITION OF PP-RIBOSE-P-SYNTHESIS BY PURINE NUCLEOSIDES 5839
NUCLEOTIDASES
C6 CELL ECTO-5-PRIME-NUCLEOTIDASE 3966
ECTO-ENZYMES OF MAMMARY GLAND AND ITS TUMORS 6173
5-NUCLEOTIDASE IN PERFUSED HEART, SKELETAL MUSCLE AND LIVER 6372
TIME DEPENDENT CHANGES IN ADENYLATE CYCLASE 6568
NUCLEOTIDES
SEE ALSO SPECIFIC NUCLEOTIDES
NUCLEOTIDES, BINDING
X-RAY STRUCTURE AND LIGAND BINDING OF PHOSPHORYLASE A 6142
NUCLEOTIDES, CONFORMATION
8-ALKYLAMINOADENYL NUCLEOTIDES AND DEHYDROGENASE BINDING 6791
NUCLEOTIDYLTRANSFERASE
POLYAMINES AND TRNA NUCLEOTIDYLTRANSFERASE 6646
NUCLEUS
RNA AND PROTEIN OF NUCLEAR RIBONUCLEOPROTEIN AND CHROMATIN 2592

O

O-ANTIGEN
DEACETYLATION ACTIVITY OF SALMONELLA PHAGE C341 5361
O-18 TRANSACETYLASE
DEACETYLATION ACTIVITY OF SALMONELLA PHAGE C341 5361
OCHROMONAS DANICA
OCHROMONAS FLAGELLAR MEMBRANE ISOLATION AND CHARACTERIZATION 1828
LIPID COMPOSITION OF OCHROMONAS DANICA FLAGELLAR MEMBRANE 1835
OCTADECADIENOIC ACID REDUCTASE
CELL-FREE HYDROGENATION OF CIS-9, TRANS-11-OCTADECADIENOATE 2241
OLEATE
SEE ALSO FATTY ACIDS
OLEOYL CO A
EFFECT OF INSULIN ON FATTY ACID CO A LIGASE 1488
OLFACTORY MARKER PROTEIN
RAT OLFACTORY MARKER PROTEIN 6232
OLIGOMYCIN
PROTON TRANSLOCATING ATPASE 2453
BIOLOGICAL ELECTRIC GENERATORS. H-PLUS-ATPASE 7877
OLIGONUCLEOTIDES
SEE ALSO DNA
SEE ALSO RNA
OLIGORIBONUCLEOTIDES
SEE ALSO RNA, RNASE
OLIGOSACCHARIDE-LIPID
ROLE OF TRISACCHARIDE-LIPID IN GLYCOSYLATION OF PROTEINS 7882
OLIGOSACCHARIDES
SEE ALSO GLYCOPROTEINS
SEE ALSO POLYSACCHARIDES
BIOSYNTHESIS OF CHONDROITIN SULFATE 3942
MEMBRANE DERIVED OLIGOSACCHARIDES OF ESCHERICHIA COLI 4208
STRUCTURE OF THE ACCUMULATING OLIGOSACCHARIDE IN FUCOSIDOSIS 5852
STRUCTURE OF A THYROID OLIGOSACCHARIDE-LIPID INTERMEDIATE 6439
COMPARISON OF OLIGOSACCHARIDE-LIPIDS FROM SEVERAL TISSUES 6428
OMEGA-OXIDATION
MECHANISM OF REGULATION OF OMEGA-OXIDATION OF FATTY ACIDS 5259
ONCOGENIC VIRUSES
SEE ALSO VIRUSES, ANIMAL
ONCORNAVIRUS
FIDELITY OF DNA REPLICATION 975
ONCORNAVIRUSES
SEE ALSO LEUKEMIA VIRUS
SEE ALSO VIRUSES, ANIMAL
OPHTHALMIC ACID
ALPHA-HYDROXYGLUTARATE 2263
OPTICAL ROTATORY DISPERSION
CYCLIC 3-PRIME 5-PRIME-NUCLEOTIDE PHOSPHODIESTERASE 4193
ORIGIN OF LIFE
BINDING OF URACIL DERIVATIVES TO HYDROPHOBIC PEPTIDES 6924
ORNITHINE
COMPARTMENTATION OF ORNITHINE IN NEUROSPORA 3948
ORNITHINE AMINOTRANSFERASE
TURNOVER OF ORNITHINE AMINOTRANSFERASE 1829
STEROID REGULATION OF ENZYME SYNTHESIS IN RAT LIVER IN VIVO 2571
ORNITHINE DECARBOXYLASE
ORNITHINE DECARBOXYLASE DURING DEVELOPMENT OF MAMMARY GLAND 1738
ANTISERUM MONOSPECIFIC TO HEPATIC ORNITHINE DECARBOXYLASE 1781
CORRECTION TO OKA + PERRY VOL. 251 (1976) P. 1738 3520
CORRECTION TO THEOHARIDES ET AL VOL. 251 (1976) P. 1781 3520
BIOSYNTHESIS OF ORNITHINE DECARBOXYLASE 4436
OROTATE
PURIFICATION OF COMPLEX U UMP SYNTHESIS FROM OROTATE OR OMP 5589
OROTIDYLATE DECARBOXYLASE
PURIFICATION OF COMPLEX U UMP SYNTHESIS FROM OROTATE OR OMP 5589
OSAGE ORANGE
BORATE INACTIVATION OF ANTIFREEZE GLYCOPROTEIN 3033
OSMOMETRY
AGGREGATION OF DEOXYHEMOGLOBINS AT LOW CONCENTRATIONS 7657
OUABAIN
SEE ALSO ATPASE
AVIAN (NA+,K+)ATPASE PURIFICATION AND NH2-TERMINAL SEQUENCE 4365
SPECIFIC SODIUM-22 BINDING TO A PURIFIED (NA+-K+)-ATPASE 4794
OVALBUMIN
IN VITRO SYNTHESIS OF OVALBUMIN MRNA 524
PROTEIN BINDING TO GALACTOSYLTRANSFERASE 3653
SUBSTANTIAL PURIFICATION OF THE OVALBUMIN CODING DNA STRAND 3868
EFFECTS OF ESTROGEN ON GENE EXPRESSION ROLE OF NONHISTONE 4713
ATTACHMENT OF CARBOHYDRATE TO OVALBUMIN NASCENT CHAINS 5490
SYNTHESIS OF THE OVALBUMIN GENE 7355
OVARY
DESENSITIZATION BY LH OF LH-RESPONSIVE ADENYLYL CYCLASE 2653
ENDO-BETA-GALACTOSIDASE ACTING ON BLOOD GROUP SUBSTANCES 3603
CORRECTION TO BOCKAERT ET AL VOL. 251 (1976) P. 2653 5429
GONADOTROPIN RECEPTORS IN CORPUS LUTEUM PLASMA MEMBRANES 7398
PHOSPHOLIPID ROLE IN CORPUS LUTEUM GONADOTROPIN RECEPTORS 7485
GONADOTROPIN INDUCED DESENSITIZATION OF ADENYLATE CYCLASE 7729
OVARY CELLS
ALPHA-AMANITIN-RESISTANT RNA POLYMERASE II 2729
PROTEIN KINASES DURING THE CELL CYCLE 3313
CELL-CYCLE-SPECIFIC PHOSPHORYLATION SITES OF HISTONE F1 3685
OVIDUCT
SEE ALSO OVALBUMIN
NUCLEAR ESTROGEN RECEPTOR AND INITIATION OF RNA SYNTHESIS 516
IN VITRO SYNTHESIS OF OVALBUMIN MRNA 524
EFFECT OF ESTROGEN ON GENE EXPRESSION IN THE CHICK OVIDUCT 1137
EFFECT OF ESTROGEN ON GENE EXPRESSION IN CHICK OVIDUCT 1968
ESTROGEN EFFECT ON COMPLEXITY OF POLY(A)-RNA IN OVIDUCT 3738
EFFECTS OF ESTROGEN ON GENE EXPRESSION ROLE OF NONHISTONE 4713
PROGESTERONE RECEPTOR REGULATION OF CHROMATIN TRANSCRIPTION 5166
STEROID RECEPTOR SUBUNIT EFFECTS ON CHROMATIN TRANSCRIPTION 5178
EFFECT OF ESTROGEN ON GENE EXPRESSION IN THE CHICK OVIDUCT 5565
COMPARISON OF OLIGOSACCHARIDE-LIPIDS FROM SEVERAL TISSUES 6428
NON-HISTONES ARE POSITIVE REGULATION OF OVALBUMIN GENE 6475
HEN OVIDUCT ENDO-BETA-N-ACETYLGLUCOSAMINIDASE 6537
SYNTHESIS OF THE OVALBUMIN GENE 7355
ROLE OF TRISACCHARIDE-LIPID IN GLYCOSYLATION OF PROTEINS 7882
OVIDUCT CELLS
UTILIZATION OF EXOGENOUS GDP-MANNOSE BY OVIDUCT CELLS 2511
OVULATION
ON THE ROLE OF PLASMINOGEN ACTIVATOR IN OVULATION 5694
OXALACETATE
INTERMOLECULR TRITIUM TRANSFER IN TRANSCARBOXYLASE REACTION 982
PURIFICATION AND MECHANISM STUDIES ON CITRATE SYNTHASE 1476
LOCATION OF SUBSTRATE SITE OF SUCCINATE DEHYDROGENASE 2369

METAL(II) ION, ANION EFFECTS ON P-ENOLPYRUVATE CARBOXYKINASE 2916
REGULATORY PROPERTIES OF ASCARIS NAD-MALIC ENZYME 3599
3-MERCAPTOPICOLINIC ACID. INHIBITION OF C-4 PHOTOSYNTHESIS 5824
OXALACETATE DECARBOXYLASE
OXALACETATE DECARBOXYLASE AND PYRUVATE KINASE ARE THE SAME 61
MECHANISM OF OXALACETATE DECARBOXYLASE 69
OXALATE
PROTON-COUPLED CALCIUM TRANSPORT 962
OXIDASES
SEE ALSO SPECIFIC OXYGENASES
OXIDATION-REDUCTION
SEE ALSO IRON-SULFUR PROTEINS
OXIDATION-REDUCTION POTENTIAL
MIDPOINT REDUCTION POTENTIAL OF C. ACIDI-URICI FERREDOXIN 1683
OXIDATION-REDUCTION POTENTIALS OF LIPOAMIDE DEHYDROGENASE 3956
ADRENODOXIN REDUCTASE INTERACTION WITH PYRIDINE NUCLEOTIDES 4299
ADRENODOXIN REDUCTASE ADRENODOXIN 1 1 COMPLEX+ PROPERTIES 7545
OXIDATION-REDUCTION PROTEIN
SYNTHESIS OF C. ACIDI-URICI FERREDOXIN DERIVATIVES 1675
OXIDATION-REDUCTION STATE
GLUCOSE UTILIZATION AND NAD/NADH POTENTIALS 4127
OXIDATION, OMEGA
MECHANISM OF REGULATION OF OMEGA-OXIDATION OF FATTY ACIDS 5259
OXIDATIVE PHOSPHORYLATION
SEE ALSO PHOSPHORYLATION, OXIDATIVE
OXOGLUTARATE
SEE ALSO KETOGLUTARATE
OXYGEN
SEE ALSO HEMOGLOBIN
SEE ALSO HYDROXYLASES
SEE ALSO OXYGENASES
SEE ALSO SUPEROXIDE
REACTIONS OF RECONSTITUTED MYOGLOBINS WITH O2 AND CO 1418
KINETICS OF THE HEMERYTHRIN-OXYGEN INTERACTION 2339
MECHANISM OF THROMBIN-MEDIATED BURST IN O2 USE BY PLATELETS 2536
FLAVIN-OXYGEN DERIVATIVES IN FLAVOENZYME HYDROXYLATION 2550
OXYGEN AND CARBON MONOXIDE KINETICS OF GLYCERA HEMOGLOBIN 2579
RELATIVE OXYGEN BINDING TO SUBUNITS OF HEMOGLOBIN A BY NMR 7114
ACTIVATION OF RAT LUNG GUANYLATE CYCLASE BY INCUBATION 7394
LIMULUS HEMOCYANINS 7644
OXYGEN AFFINITY
SEE ALSO HEMOGLOBIN
OXYGEN PULSE
STOICHIOMETRY OF MITOCHONDRIAL PROTON EJECTION 5670
OXYGEN SCRAMBLING
ATP OXYGEN SCRAMBLING 5881
OXYGEN-18
OXYGEN-18 DEPLETION FROM CO2 IN ERYTHROCYTE SUSPENSIONS 4428
GLUTAMINE SYNTHETASE EXCHANGES 5558
ATP OXYGEN SCRAMBLING 5881
PROPERTIES OF 2-NITROPROPANE DIOXYGENASE 6994
OXYGEN, SINGLET
SEE ALSO SUPEROXIDE
OXYGEN, SUPEROXIDE
SEE ALSO SUPEROXIDE
OXYGENASES
SEE ALSO CYTOCHROME P 450
SEE ALSO HYDROXYLASES
SEE ALSO SPECIFIC OXYGENASES
CONTROL OF MONOOXYGENASE AND EPOXIDE HYDRATASE 79
PURIFICATION OF KIDNEY 3-HYDROXYANTHRANILIC ACID OXYGENASE 368
PROSTAGLANDIN ENDOPEROXIDE SYNTHETASE 2629
ENZYME MEDIATED MUTAGENESIS OF BENZPYRENE 4882
PURIFICATION OF PROSTAGLANDIN-FORMING CYCLOOXYGENASE 5575
METHYL STEROL OXIDASE 6638
PROPERTIES OF 2-NITROPROPANE DIOXYGENASE 6994
SPECTRAL AND EPR STUDIES ON ROLE OF IRON IN LIPOXYGENASE 7144
MECHANISM FOR SELF-DEACTIVATION OF PROSTAGLANDIN SYNTHETASE 7329
ACYL-CO A DESATURASE OF ADIPOSE TISSUE AND LIVER 7468
NEGLIGIBLE AMOUNT OF COPPER IN L-TRYPTOPHAN 2,3-DIOXYGENASE 7722
OXYGENATION OF UNSATURATED FATTY ACIDS IN RABBIT LEUKOCYTES 7816
OXYHEMOGLOBIN
SEE ALSO HEMOGLOBIN
OXYTOCIN
PROTEIN AND PEPTIDE HORMONE REACTIONS WITH TETRANITROMETHANE 368
CHARACTERIZATION OF PORCINE NEUROPHYSIN III 2735
BINDING OF POLYPEPTIDE HORMONES TO BOVINE NEUROPHYSINS 2929
HORMONE BINDING EFFECTS ON NEUROPHYSIN QUATERNARY STRUCTURE 3965
THE ENDOPEPTIDASE POST-PROLINE CLEAVING ENZYME 7593

P

P-ENOLPYRUVATE
A NONCLASSICAL TRI UNI UNI PING PONG MECHANISM 7920
P-450
SEE ALSO CYTOCHROME P 450
PALMITATE
SEE ALSO FATTY ACIDS
MECHANISM OF 3-KETOSPHINGANINE SYNTHETASE 1597
UNSATURATED FATTY ACID SYNTHESIS IN TETRAHYMENA 7588
PALMITOLEATE
UNSATURATED FATTY ACID SYNTHESIS IN TETRAHYMENA 7588
PALMITOYL CO A
DEHYDROGENASE INHIBITION BY PALMITOYL COENZYME A 1406
EFFECT OF INSULIN ON FATTY ACID CO A LIGASE 1488
ADENINE NUCLEOTIDE TRANSPORT 2446
DIACYLGLYCEROL ACYLTRANSFERASE ACTIVITY OF FAT CELLS 4537
PALMITOYL CO A HYDROLASE
ACETYL- AND CARBOXYLESTERASES FROM C. BOGORIENSIS 431
PALMITOYL CO A SYNTHETASE
EFFECT OF INSULIN ON FATTY ACID CO A LIGASE 1488
PALMITOYL SPHINGOSINE
ALPHA-FUCOPYRANOSYL-CERAMIDE 2385
PALMITYLCARNITINE
EFFECT OF HYDROGEN SHUTTLES ON FATTY ACID OXIDATION 277
PANCREAS
SEE ALSO DNASE
SEE ALSO INSULIN
SEE ALSO RNASE
EFFECT OF FASTING ON GLYCOLYTIC ENZYMES IN PANCREATIC ISLETS 1731
BINDING OF VASOACTIVE INTESTINAL PEPTIDE 4629
CYCLIC AMP IN PANCREATIC ACINAR CELLS 4635
CYCLIC GMP IN PANCREATIC ACINAR CELLS 4640
HIGH CONCENTRATIONS OF MYO-INOSITOL STIMULATE SECRETION 5078
INSULIN RELEASE METABOLISM OF GLUCOSE ANOMERS IN ISLETS 5936
GLUCOSE METABOLISM AND N-CELL FUNCTION IN VITRO 6053
COMPARISON OF OLIGOSACCHARIDE-LIPIDS FROM SEVERAL TISSUES 6420
PANICUM MAXIMUM
3-MERCAPTOPICOLINIC ACID. INHIBITION OF C-4 PHOTOSYNTHESIS 5824
PANTETHEINE
SUBUNIT STRUCTURE AND CHEMICAL COMPOSITION OF CITRATE LYASE 2911
FATTY ACID SYNTHETASE 3194
PANTOTHENATE
PURIFICATION OF KETOPANTOATE HYDROXYMETHYLTRANSFERASE 3780
PROPERTIES OF KETOPANTOATE HYDROXYMETHYLTRANSFERASE 3786
ACP METABOLISM AND REGULATION IN LACTOBACILLUS 4706
PAPAIN
THE PRIMARY STRUCUTRE OF STREPTOCOCCAL PROTEINASE. III 1955
PARACOCCUS DENITRIFICANS
PARACOCCUS DENITRIFICANS CYTOCHROME C550 SEQUENCE 2197
PARACOCCUS CYTOCHROME C 550 STRUCTURE 4033
PARAMAGNETIC EFFECTS
CONFORMATION OF ATP ON PYRUVATE KINASE 2412
PARAMAGNETIC RESONANCE
SEE ALSO ELECTRON PARAMAGNETIC RESONANCE
SEE ALSO NUCLEAR MAGNETIC RESONANCE
PARATHYROID HORMONE
PROPERTIES OF SYNTHETIC PAPATHYROID HORMONE ANALOGUES 159
PRE-PROPARATHYROID HORMONE BIOSYNTHESIS 3893
PARATHYROID HORMONE CONVERTING ACTIVITY 6711
PARINARIC ACID
CHARACTERISTIC TEMPERATURES OF LM CELL MEMBRANES 6739
PHYSICAL PROPERTIES OF MEMBRANES WITH ALTERED PHOSPHOLIPIDS 6747
PEAS
PURIFICATION OF TWO BLACK-EYED PEA PROTEASE INHIBITORS 734
OPTICAL PROPERTIES OF BLACK-EYED PEA PROTEASE INHIBITORS 741
SUBUNIT INTERACTIONS OF BLACK-EYED PEA PROTEIN INHIBITORS 747
HALF-SITE REACTIVITY IN PROTEASE-INHIBITOR COMPLEXES 754
ENERGETICS OF PROTEASE-BLACK-EYED PEA INHIBITOR INTERACTIONS 763
ENERGY TRANSFER STUDIES ON PROTEASE INHIBITOR COMPLEXES 769
PENICILLAMINE
ENZYMOLOGICAL STUDIES ON HEREDITARY AVIAN DYSTROPHY 4468
PENICILLIN
PURIFICATION OF D-ALANINE CARBOXYPEPTIDASES I FROM E. COLI 414
DEGRADATION OF PENILILLIN G BY D-ALANINE CARBOXYPEPTIDASE 7947
PENICILLINASE
MEMBRANE PENICILLINASE OF B. LICHENIFORMIS 4095
PHOSPHOLIPOPEPTIDE FROM BACILLUS MEMBRANE PENICILLINASE 4102
PENICILLIUM CHRYSOGENUM
STEADY-STATE KINETICS OF PENICILLIUM ATP SULFURYLASE 4389
PEPSIN
PEPSTATIN INHIBITION OF ACID PROTEASES 7088
MECHANISM OF INTRAMOLECULAR ACTIVATION OF PEPSINOGEN 7095
PEPSINOGEN
MECHANISM OF INTRAMOLECULAR ACTIVATION OF PEPSINOGEN 7095
PEPSTATIN
PEPSTATIN INHIBITION OF ACID PROTEASES 7088
PEPTIDASES
SEE ALSO AMINOPEPTIDASES
SEE ALSO CARBOXYPEPTIDASES
SEE ALSO PROTEASES
PRONASE CARBOXYPEPTIDASE 204
PURIFICATION OF D-ALANINE CARBOXYPEPTIDASES I FROM E. COLI 414
A MODIFICATION WHICH AFFECTS THE STABILITY OF HMW-EGF 1188
THROMBIN-LIKE ENZYME FROM BOTHROPS ATROX VENOM 1663
PURIFICATION OF INTESTINAL BRUSH BORDER MEMBRANE PEPTIDASES 3199
PROPERTIES OF INTESTINAL BRUSH BORDER MEMBRANE PEPTIDASES 3206
TRH METABOLISM BY HAMSTER HYPOTHALAMUS 3229
THE ENDOPEPTIDASE POST-PROLINE CLEAVING ENZYME 7593
PEPTIDE SYNTHESIS
SEE ALSO PROTEIN, SYNTHESIS
PEPTIDE, PROTEIN INTERACTION
PHOSPHORYLASE KINASE AUTOPHOSPHORYLATION AND SUBSTRATES 7480
PEPTIDES
PHOSPHOFRUCTOKINASE STABILIZING FACTOR FROM LIVER 2323
BINDING OF URACIL DERIVATIVES TO HYDROPHOBIC PEPTIDES 6924
RADIOIMMUNOASSAY FOR NEUROTENSIN 7035
DISTRIBUTION OF NEUROTENSIN 7045
INTESTINAL NEUROTENSIN 7053
BRAIN ANGIOTENSIN RECEPTORS 7423
PHOSPHORYLASE KINASE AUTOPHOSPHORYLATION AND SUBSTRATES 7480
THE ENDOPEPTIDASE POST-PROLINE CLEAVING ENZYME 7593
PEPTIDES, CLEAVAGE
SEE ALSO PROTEASES
SEE ALSO TRANSGLUTAMINASE
PEPTIDES, SYNTHESIS (CHEMICAL)
RIBONUCLEASE QUANTITATIVE AFFINITY CHROMATOGRAPHY 2044
PEPTIDOGLYCAN
SEE ALSO WALLS, CELL
CONDITIONAL SPORE CORTEX-LESS MUTANTS OF B. SPHAERICUS 1493
MEMBRANE BOUND PEPTIDOGLYCAN SYNTHETIC PROTEIN B MEGATERIUM 1889
CORRECTION TO IHAE AND STROMINGER VOL. 251 (1976) P. 1493 3839
N-ACETYLGLUCOSAMINYLTRANSFERASE IN PEPTIDOGLYCAN SYNTHESIS 6154
PEPTIDOGLYCAN HYDROLASE
PURIFICATION OF THE PNEUMOCOCCAL AUTOLYSIN (AMIDASE) 4199
PEPTIDOHYDROLASES
SEE ALSO PEPTIDASES
PEPTIDYL-TRNA HYDROLASE
PEPTIDYL TRANSFER RNA DISSOCIATES FROM RIBOSOMES OF E. COLI 3392
PEPTOCOCCUS AEROGENES
TRANSLATION SPECIFICITY OF BACTERIAL RIBOSOMES AND MRNA 2499
P.AEROGENES FERREDOXIN STRUCTURE. REFINEMENT AT 2 ANGSTROMS 3881
PERCHLORATE
KINETICS OF THE HEMERYTHRIN-OXYGEN INTERACTION 2339
PERFUSION
SEE ALSO LIVER, PERFUSION
RENAL METABOLISM OF EXOGENOUS CYCLIC AMP AND CYCLIC GMP 4958
5-NUCLEOTIDASE IN PERFUSED HEART, SKELETAL MUSCLE AND LIVER 6372
PERIODATE
SURFACE ALTERATIONS IN PERIODATE-OXIDIZED LYMPHOCYTES 1864
PERIODONTITIS
COLLAGEN SYNTHESIS BY GINGIVA FIBROBLASTS 5464
PERMEASES
SEE ALSO TRANSPORT
PEROXIDASES
SEE ALSO CHLOROPEROXIDASE
SEE ALSO MYELOPEROXIDASE
THYROID PEROXIDASE AND NONIONIC DETERGENTS 2525
KINETICS OF CARBOXYMETHOGLOBIN 4267
OXIDATION OF P-CRESOL BY HORSERADISH PEROXIDASE COMPOUND I 6436
A PH-DEPENDENT STOICHIOMETRY WITH HORSERADISH PEROXIDASE COMPOUND X 6443 6340
PEROXIDE
SEE ALSO HYDROGEN PEROXIDE
SEE ALSO SUPEROXIDE DISMUTASE
PROSTAGLANDIN ENDOPEROXIDE SYNTHETASE 2629
PEROXIDES
SPECTRAL AND EPR STUDIES ON ROLE OF IRON IN LIPOXYGENASE 7144
MECHANISM FOR SELF-DEACTIVATION OF PROSTAGLANDIN SYNTHETASE 7329
PEROXISOMES
RAT LIVER + KIDNEY PEROXISOMES. GLYOXYLATE AMINOTRANSFERASE 4408
PH
LEUCINE AMINOPEPTIDASE. EFFECT OF PH ON BINDING OF METAL ION 53

INTERNAL PH OF CHROMAFFIN VESICLES 2189
SPECIFICITY OF CHYMOTRYPSIN WITH CARBOXYL GROUPS BLOCKED 2353
ANALYSIS OF INTACT MUSCLE BY 31P NUCLEAR MAGNETIC RESONANCE 2584
REGULATORY PROPERTIES OF ASCARIS NAD-MALIC ENZYME 3599
O2 BINDING + SUBUNIT DISSOCIATION OF TAOPOLE HEMOGLOBINS 4254
CARBAMATE IN GLYCYLGLYCINE PLASMA AND TISSUE EXTRACTS 4398
CHROMAFFIN GRANULE MEMBRANE POTENTIAL 4544
BUFFER AND PH EFFECTS ON BRAIN-SPECIFIC PROTEIN ACCUMULATION 5112
TITRATION OF TYROSINES IN MYOGLOBINS 5187
A PH-DEPENDENT STOICHIOMETRY WITH HORSERADISH PEROXIDASE 6043
PHAGOCYTOSIS
CHLORIDE PEROXIDATION BY MYELOPEROXIDASE 1371
CORRECTION TO HARRISON + SCHULTZ VOL. 251 (1976) P. 1371 3197
PHASE TRANSITIONS
CHARACTERISTIC TEMPERATURES OF LM CELL MEMBRANES 6739
PHASEOLUS VULGARIS
SURFACE ALTERATIONS IN PERIODATE-OXIDIZED LYMPHOCYTES 1864
PHENANTHROLINE
PRONASE CARBOXYPEPTIDASE 284
PHENOBARBITAL
CORRECTION TO LU ET AL. VOL. 250 (1975) P. 8283 1219
DE NOVO PROTEIN SYNTHESIS OF CYTOCHROME P 450 1817
MULTIPLE FORMS OF MOUSE CYTOCHROME P 450 4659
CCL-4 MEDIATED LIPID PEROXIDATION IN ISOLATED LIVER CELLS 4973
GENETICS OF METYRAPONE AND ETHYL ISOCYANIDE BINDING TO P 450 5397
TWO HOMOGENEOUS FORMS OF LIVER MICROSOMAL CYTOCHROME P 450 7929
PHENOL
FLAVIN-OXYGEN DERIVATIVES IN FLAVOENZYME HYDROXYLATION 2550
INTACT OLD YELLOW ENZYME VIA SINGLE CHROMATOGRAPHIC STEP 5321
CHARGE-TRANSFER COMPLEXES OF OLD YELLOW ENZYME 5327
MECHANISM FOR SELF-DEACTIVATION OF PROSTAGLANDIN SYNTHETASE 7329
PHENOXYBENZAMINE
CYCLIC GMP, CA2+PLUS AND GLYCOGENOLYSIS BY LIVER CELLS 2987
PHENYL ESTERS
ACYLATION OF SUBTILISIN CARLSBERG BY PHENYL ESTERS 1486
PHENYLACETATE
GLYCINE + L-GLUTAMINE SPECIFIC ACYL-CO A NIACYLTRANSFERASES 3352
PHENYLACETYLGLUTAMINE
GLYCINE + L-GLUTAMINE SPECIFIC ACYL-CO A NIACYLTRANSFERASES 3352
PHENYLACETYLGLYCINE
DEGRADATION OF PENILILLIN G BY D-ALANINE CARBOXYPEPTIDASE 7947
PHENYLALANINE
RAT LIVER + KIDNEY PEROXISOMES. GLYOXYLATE AMINOTRANSFERASE 4408
ELECTRONIC STRUCTURE AND BONDING IN AMINO ACIDS 5992
AMINOACYL-TRNA SYNTHETASES THE RATE-DETERMINING STEP 7717
PHENYLALANINE AMINOTRANSFERASE
AROMATIC AMINOTRANSFERASES IN BACILLUS SUBTILIS 6974
PHENYLALANINE AMMONIA-LYASE
PHENYLALANINE AMMONIA-LYASE INDUCTION PURIFICATION CLEARANCE 4646
PHENYLALANINE HYDROXYLASE
CATECHOLAMINE INACTIVATION OF PHENYLALANINE HYDROXYLASE 3671
ACTION OF P-CHLOROPHENYLALANINE OF PHENYLALANINE HYDROXYLASE 3677
PHOSPHORYLATION OF PHENYLALANINE HYDROXYLASE 5310
PROPERTIES OF PHENYLALANINE HYDROXYLASE OF H4-II-E-C3 CELLS 6901
PHENYLALANINE PEPTIDES
BINDING OF URACIL DERIVATIVES TO HYDROPHOBIC PEPTIDES 6924
PHENYLALANINE TRNA
CONFORMATIONAL CHANGE IN TRNA-PHE UPON AMINOACYLATION 1529
PHENYLALANYL-TRNA
AMINOACYL-TRANSFER RNA CONFORMATION 6730
PHENYLEPHRINE
ALPHA-ADRENERGIC ACTIVATION OF HEPATIC GLUCOSE OUTPUT I. 5200
ALPHA-ADRENERGIC ACTION IN LIVER. II 5209
PHENYLGLYOXAL
ESSENTIAL ARGININE OF ASPARTATE TRANSCARBAMYLASE 2688
ESSENTIAL ARGINYL RESIDUES OF D-SERINE DEHYDRATASE 6179
ACTIVATOR-INDUCED OLIGOMERIZATION OF ADP-GLUCOSE SYNTHASE 7886
PHENYLHYDRAZINE
PHENYLHYDRAZINE, HEMOGLOBIN AND SUPEROXIDE GENERATION 3645
PHENYLMETHYLSULFONYL FLUORIDE
SEE ALSO PROTEASES
SEE ALSO SERINE (IN PROTEINS)
BINDING AND DEGRADATION OF INSULIN BY HUMAN GRANULOCYTES 2761
PHLORIDZIN
PHOTOPHOSPHORYLATION AND INTERNAL H-PLUS CONCENTRATION 1618
CYTOCHALASIN B BINDING TO FAT CELL PLASMA MEMBRANES 2965
PHOSPHATASE
SEE ALSO GLUCOSE-6-PHOSPHATASE
SEE ALSO SPECIFIC PHOSPHATASES
PHOSPHORYL ALKALINE PHOSPHATASES 1202
31-P NMR OF PHOSPHATE COMPLEXES OF PHOSPHATASE 1207
ACTION OF PHOSPHORYLASE PHOSPHATASE ON GLYCOGEN SYNTHASE B 2363
CHARACTERIZATION OF KB ALKALINE PHOSPHATASE 2620
C-AMP ACTIVATION OF ACYL HYDROLASES IN ADIPOSE TISSUE 2882
ALKALINE PHOSPHATASE FROM THERMUS AQUATICUS 3134
THE PLASMA MEMBRANE OF HUMAN PLACENTA 4139
THIOL GROUP AND FE+++ REQUIREMENT FOR UTERINE PHOSPHATASE 4680
PHOSPHOPROTEIN PHOSPHATE(S) 4858
MEMBRANE PERMEABILITY AND MICROSOMAL GLUCOSE-6-PHOSPHATASE 4901
PHOSPHATE
SEE ALSO TRANSPORT, PHOSPHATE
CRYSTALLINE METHYLGLYOXAL SYNTHETASE FROM PROTEUS VULGARIS 364
LIVER PURINE NUCLEOSIDE PHOSPHORYLASE 407
PROTON-COUPLED CALCIUM TRANSPORT 962
EUKARYOTIC CYTOCHROMES C REACTIONS WITH MITOCHONDRIAL ENZYME 1104
31-P NMR OF PHOSPHATE COMPLEXES OF PHOSPHATASE 1207
INACTIVATION OF PHOSPHORYLASE B BY POTASSIUM FERRATE 1553
RAT LIVER MITOCHONDRIAL ALDEHYDE DEHYDROGENASE 1571
RABBIT SKELETAL MUSCLE GLYCOGEN SYNTHASE II 1920
ATP SYNTHESIS IN SARCOPLASMIC RETICULUM VESICLES 2055
LIGAND-INDUCED ALTERATIONS IN AMIDOPHOSPHORIBOSYLTRANSFERASE 2234
METAL(II) ION, ANION EFFECTS ON P-ENOLPYRUVATE CARBOXYKINASE 2916
6-PHOSPHOFRUCTOKINASE (PYROPHOSPHATE) 2958
25-HYDROXYVITAMIN D3-1-ALPHA-HYDROXYLASE 3158
NTP PI EXCHANGE IN SARCOPLASMIC RETICULUM VESICLES 3629
AUTOACTIVATION OF PHOSPHORYLASE KINASE 4521
CALCIUM-INDUCED TRANSITION IN MITOCHONDRIA 5069
GLUTAMINE SYNTHETASE EXCHANGES 5558
INHIBITION OF PP-RIBOSE-P-SYNTHESIS BY PURINE NUCLEOSIDES 5839
POLYRIBOADENYLATE POLYMERASE OF ESCHERICHIA COLI 6274
GLUCOSE 6-PHOSPHATE TRANSPORT AND GLUCOSE-6-PHOSPHATASE 6784
ORGANIC PHOSPHATES AND METHEMOGLOBIN REDUCTION BY ASCORBATE 7494
PHOSPHATIDATE
ACYL SELECTIVITIES OF ACYLTRANSFERASES IN E. COLI 2487
PHOSPHATIDYLCHOLINE
SEE ALSO PHOSPHOLIPIDS
TRANSMEMBRANE ASYMMETRY OF PHOSPHATIDYLCHOLINE VESICLES 2110
DNR OF ANIMAL CELLS 6147
PHOSPHOLIPID ROLE IN CORPUS LUTEUM GONADOTROPIN RECEPTORS 7405
PHOSPHATIDYLETHANOLAMINE
SEE ALSO PHOSPHOLIPIDS
IONOPHORE A23187 ALTERS ERYTHROCYTE PHOSPHOLIPID METABOLISM 4162
PHOSPHOLIPID ROLE IN CORPUS LUTEUM GONADOTROPIN RECEPTORS 7405
PHOSPHATIDYLGLYCEROL
SEE ALSO PHOSPHOLIPIDS
LYSOSOMAL BIS(MONOACYLGLYCERYL)P SYNTHESIS 4596
PHOSPHATIDYLGLYCEROPHOSPHATE
METABOLIC FATE OF 3,4-DIHYDROXYBUTYL-1-PHOSPHONATE IN E.COLI 6717
PHOSPHATIDYLINOSITOL
SEE ALSO PHOSPHOLIPIDS
PHOSPHATIDYLSERINE
SEE ALSO PHOSPHOLIPIDS
PHOSPHOLIPOPEPTIDE FROM BACILLUS MEMBRANE PENICILLINASE 4182
INCORPORATION OF PROTEINS INTO LIPOSOMES 6831
PHOSPHATIDYLSERINE SYNTHETASE
PHOSPHATIDYLSERINE SYNTHETASE MUTANTS OF ESCHERICHIA COLI 3242
PHOSPHATIDYLTRANSFERASE
METABOLIC FATE OF 3,4-DIHYDROXYBUTYL-1-PHOSPHONATE IN E.COLI 6717
PHOSPHOARGININE
PHOSPHOROUS MAGNETIC RESONANCE STUDY OF ARGININE KINASE 6981
PHOSPHOCREATINE
ACCUMULATION OF PHOSPHOCYCLOCREATINE IN CHICK MUSCLE 2649
ANALYSIS OF INTACT MUSCLE BY 31P NUCLEAR MAGNETIC RESONANCE 2584
PHOSPHOCYCLOCREATINE
ACCUMULATION OF PHOSPHOCYCLOCREATINE IN CHICK MUSCLE 2649
PHOSPHODIESTERASE
SEE ALSO CYCLIC AMP
PROTEIN INHIBITOR OF ACID DEOXYRIBONUCLEASES 116
ADENINE NUCLEOTIDE LEVELS OF SPERM 787
CYCLIC GMP METABOLISM IN NORMAL AND TRANSFORMED FIBROBLASTS 2344
CYCLIC 3-PRIME 5-PRIME-NUCLEOTIDE PHOSPHODIESTERASE 4193
COMPARISON OF CALCIUM-BINDING PROTEINS 4495
SIMILARITIES BETWEEN CALCIUM-DEPENDENT REGULATORY PROTEINS 4561
LYMPHOCYTE CYCLIC AMP PHOSPHODIESTERASE 4922
CYCLIC 3-PRIME 5-PRIME-NUCLEOTIDE PHOSPHODIESTERASE 5726
CYCLIC NUCLEOTIDE PHOSPHODIESTERASE SECRETION FROM PLATELETS 7508
PHOSPHOENOLPYRUVATE
MECHANISM OF OXALACETATE DECARBOXYLASE 69
SUBSTRATE CONFORMATIONS ON PYRUVATE KINASE 2431
SUBSTRATE CONFORMATIONS ON PYRUVATE KINASE 2431
SUGAR TRANSPORT AND TRANSPHOSPHORYLATION SYSTEM 3834
3-DEOXY-D-ARABINO-HEPTULOSONATE 7-PHOSPHATE SYNTHASE 5448
HYSTERETIC KINETICS OF ERYTHROCYTE PYRUVATE KINASE 5600
3-MERCAPTOPICOLINIC ACID. INHIBITION OF C-4 PHOTOSYNTHESIS 5824
MUTANTS OF BACTERIAL PHOSPHOTRANSFERASE SYSTEM 6584
INDUCER EXCLUSION AND REGULATION OF SUGAR TRANSPORT SYSTEMS 6606
PHOSPHOENOLPYRUVATE CARBOXYKINASE
P-ENOLPYRUVATE CARBOXYKINASE INHIBITED BY MERCAPTOPICOLINATE 37
METAL(II) ION, ANION EFFECTS ON P-ENOLPYRUVATE CARBOXYKINASE 2916
FE(II) AND P-ENOLPYRUVATE CARBOXYKINASE FERROACTIVATOR 2922
REGULATION OF PHOSPHOENOLPYRUVATE CARBOXYKINASE DEGRADATION 3586
PHOSPHOENOLPYRUVATE CARBOXYLASE
NADH ACTIVATED PHOSPHOENOLPYRUVATE CARBOXYLASE 2754
PHOSPHOENZYMES
SEE ALSO PROTEIN, KINASES
SEE ALSO PROTEIN, PHOSPHORYLATION
PHOSPHOFRUCTOKINASE
FATTY ACID INACTIVATION OF PHOSPHOFRUCTOKINASE 98
EFFECT OF FASTING ON GLYCOLYTIC ENZYMES IN PANCREATIC ISLETS 1731
PHOSPHOFRUCTOKINASE STABILIZING FACTOR FROM LIVER 2323
6-PHOSPHOFRUCTOKINASE (PYROPHOSPHATE) 2958
THE FRUCTOSE 6-PHOSPHATE SITE OF PHOSPHOFRUCTOKINASE 2983
FRUCTOSE 6-SULFATE AS A SUBSTRATE OF PHOSPHOFRUCTOKINASE 3664
PH INDUCED STRUCTURAL CHANGES IN PHOSPHOFRUCTOKINASE 5630
LIGAND INDUCED STRUCTURAL CHANGES IN PHOSPHOFRUCTOKINASE 5637
PH INDUCED REGULATORY KINETICS OF PHOSPHOFRUCTOKINASE 5644
PHOSPHOFRUCTOKINASE REGULATION IN A THYROID TUMOR 6244
CONTROL OF PHOSPHOFRUCTOKINASE FROM SKELETAL MUSCLE 7322
PHOSPHOGLUCONATE
6-PHOSPHOGLUCONATE DEHYDROGENASE 7127
PHOSPHOGLUCONATE DEHYDROGENASE
REGULATION OF 6-PHOSPHOGLUCONATE DEHYDROGENASE SYNTHESIS 3539
6-PHOSPHOGLUCONATE DEHYDROGENASE 7127
PHOSPHOGLYCERATE
SEE ALSO HEMOGLOBIN
PHOSPHOGLYCERATE MUTASE
AFFINITY LABELING OF PHOSPHOGLYCERATE MUTASE 4565
PHOSPHORYLATION OF PHOSPHOGLYCERATE MUTASE AND SYNTHASE 4817
ISOLATION OF HUMAN ERYTHROCYTE PHOSPHOGLYCERATE MUTASE 6699
PHOSPHOGLYCOLIPIDS
SEE ALSO LIPIDS
PHOSPHOHYDROLASES
SEE ALSO ATPASE
PHOSPHOKINASE
SEE ALSO PROTEIN, KINASES
SEE ALSO PROTEIN, PHOSPHORYLATION
PHOSPHOLIPASES
PROSTAGLANDIN BIOSYNTHESIS AND VASOACTIVE SUBSTANCES 776
ACTION OF PHOSPHOLIPASE A2 ON HDL3 1984
EFFECT OF PHOSPHOLIPASES ON STEROID BINDING 2279
MECHANISM OF THROMBIN-MEDIATED BURST IN O2 USE BY PLATELETS 2536
COMPARATIVE STUDIES OF LIPASE AND PHOSPHOLIPASE A2 3128
ACTION OF PHOSPHOLIPASE A2 ON LOW-DENSITY LIPOPROTEIN-2 3823
CORRECTION TO AGGERBECK ET AL VOL. 251 (1976) P. 3823 5429
NEUROTOXIC PHOSPHOLIPASE A SEQUENCE 7343
GONADOTROPIN RECEPTORS IN CORPUS LUTEUM PLASMA MEMBRANES 7398
PHOSPHOLIPID ROLE IN CORPUS LUTEUM GONADOTROPIN RECEPTORS 7405
PHOSPHOLIPIDS
SEE ALSO CERAMIDES
SEE ALSO GANGLIOSIDES
SEE ALSO GLYCOSPHINGOLIPIDS
SEE ALSO LIPIDS
SEE ALSO SPHINGOLIPIDS
BIOSYNTHESIS OF CHONDROITIN SULFATE 285
EUKARYOTIC CYTOCHROMES C REACTIONS WITH MITOCHONDRIAL ENZYME 1104
PHOSPHOLIPID ACTIVATION OF A PURIFIED MEMBRANE ENZYME 1264
LIPID ACTIVATION OF A MEMBRANE ENZYME. BIOPHYSICAL STUDIES 1278
PHOSPHOLIPIDS AS IONOPHORES 1326
PHOSPHOLIPIDS AS IONOPHORES 1326
CHOLINE UPTAKE AND METABOLISM IN BRAIN CELLS IN CULTURE 1392
LIPID COMPOSITION OF OCHROMONAS DANICA FLAGELLAR MEMBRANE 1835
ACTION OF PHOSPHOLIPASE A2 ON HDL3 1984
TRANSMEMBRANE ASYMMETRY OF PHOSPHATIDYLCHOLINE VESICLES 2110
SELF-ASSOCIATION OF CYTOCHROME B5 IN AQUEOUS SOLUTION 2113
RECONSTITUTION OF PERMEABILITY CHANNELS 2176
EFFECT OF PHOSPHOLIPASES ON STEROID BINDING 2279
ADENINE NUCLEOTIDE TRANSPORT 2446
PROTON TRANSLOCATING ATPASE 2453
ACYL SELECTIVITIES OF ACYLTRANSFERASES IN E. COLI 2487
NEW VITAMIN K-DEPENDENT ZYMOGEN 3052
PHOSPHATIDYLSERINE SYNTHETASE MUTANTS OF ESCHERICHIA COLI 3242
BIOSYNTHESIS OF CHOLIC ACID 3495

ACTION OF PHOSPHOLIPASE A2 ON LOW-DENSITY LIPOPROTEIN-2 3823
MEMBRANE DERIVED OLIGOSACCHARIDES OF ESCHERICHIA COLI 4208
ROLE OF PHOSPHOLIPIDS IN THE CALCIUM-DEPENDENT ATPASE 4224
MAMMALIAN MEMBRANES WITH ALTERED PHOSPHOLIPID COMPOSITION 5015
MECHANISM OF RAT LIVER MICROSOMAL STEARYL-CO A DESATURASE 5095
SUPERNATANT PROTEIN AND SQUALENE EPOXIDASE 5155
PHOSPHOLIPID-PROTEIN INTERACTION IN CA++ ATPASE 5161
PLASMA LIPOPROTEINS AND PROTHROMBIN ACTIVATION 5233
MECHANISM OF ATP HYDROLYSIS BY SARCOPLASMIC RETICULUM 5414
CORRECTION TO AGGERBECK ET AL VOL. 251 (1976) P. 3823 5429
A CALCIUM-DEPENDENT PROTHROMBIN TRANSITION 5648
FAT CELL GLYCEROL-P AND DIHYDROXYACETONE-P ACYLTRANSFERASES 5738
N-ACETYLGLUCOSAMINYLTRANSFERASE IN PEPTIDOGLYCAN SYNTHESIS 6154
CORRECTION TO HIDALGO ET AL VOL. 251 (1976) P. 4224 6160
RELIPIDATION OF APOLIPOPROTEINS 6367
EFFECT OF LIPIDS ON RECONSTITUTION OF MEMBRANE VESICLES 6662
METABOLIC FATE OF 3,4-DIHYDROXYBUTYL-1-PHOSPHONATE IN E.COLI 6717
CHARACTERISTIC TEMPERATURES OF LM CELL MEMBRANES 6739
PHYSICAL PROPERTIES OF MEMBRANES WITH ALTERED PHOSPHOLIPIDS 6747
INCORPORATION OF PROTEINS INTO LIPOSOMES 6831
ROLE OF GAMMA-CARBOXYGLUTAMIC ACID 6886
BIOLOGICAL ELECTRIC GENERATORS. H-PLUS-ATPASE 7077
PHOSPHOLIPID INHIBITION OF GLYCOLYSIS IN BRAIN 7149
GONADOTROPIN RECEPTORS IN CORPUS LUTEUM PLASMA MEMBRANES 7398
F1 BACTERIOPHAGE COAT PROTEIN AND PHOSPHOLIPID METABOLISM 7739

PHOSPHOLIPOPROTEINS
SEE ALSO LIPOPROTEINS

PHOSPHONACETYL-L-ASPARTATE
13C NMR AND ASPARTATE TRANSCARBAMYLASE 5976

PHOSPHONACETYLASPARTATE
ESSENTIAL ARGININE OF ASPARTATE TRANSCARBAMYLASE 2688

PHOSPHONATES
METABOLIC FATE OF 3,4-DIHYDROXYBUTYL-1-PHOSPHONATE IN E.COLI 6717

PHOSPHONOACETYLAMIDO L-ALANINE
CATALYTIC MECHANISMS OF GLUTAMINE SYNTHETASE ENZYMES 7530

PHOSPHOPANTETHEINE
FATTY ACID SYNTHETASE 3194

PHOSPHOPEPTIDES
PEPTIDES AND PHOSPHOPEPTIDES OF THE FAT CELL 1505
HORMONAL CONTROL OF PROTEIN PHOSPHORYLATION IN FAT CELLS 1511

PHOSPHOPROTEIN PHOSPHATASE
REGULATION OF PYRUVATE DEHYDROGENASE 1364
ACTION OF PHOSPHORYLASE PHOSPHATASE ON GLYCOGEN SYNTHASE B 2363
PHOSPHOPROTEIN PHOSPHATE(S) 4850
INSULIN EFFECTS ON HEART GLYCOGEN SYNTHASE PHOSPHATASE 6724

PHOSPHOPROTEINS
SEE ALSO ATPASE
SEE ALSO PROTEIN, KINASES
SEE ALSO PROTEIN, PHOSPHORYLATION
PHOSPHORYLATION OF RIBOSOMAL PROTEIN 1500
THE RIBOSOMAL PROTEINS OF SACCHAROMYCES CEREVISIAE 1799
EFFECTS OF TRYPSIN ON GLYCOGEN SYNTHETASE 4359
ARRANGEMENT OF 95,000-DALTON PEPTIDE IN RED CELL MEMBRANE 5115
PHOSPHOLIPID-PROTEIN INTERACTION IN CA++ ATPASE 5161
MECHANISM OF ATP HYDROLYSIS BY SARCOPLASMIC RETICULUM 5414
PHOSPHORYLASE KINASE AUTOPHOSPHORYLATION AND SUBSTRATES 7480

PHOSPHOPYRIDOXYL TRIFLUOROETHYLAMINE
MAGNETIC RESONANCE PROBE (19-F) IN ASPARTATE TRANSAMINASE 1653

PHOSPHORAMIDATES
HERPES VIRUS-INDUCED INCORPORATION OF AIDURD INTO DNA 4833
BIOCHEMICAL PROPERTIES OF IODO-AMINO-DEOXY UTP 4839

PHOSPHORIBOSYLPYROPHOSPHATE
LIGAND-INDUCED ALTERATIONS IN AMIDOPHOSPHORIBOSYLTRANSFERASE 2234
INHIBITION OF PP-RIBOSE-P-SYNTHESIS BY PURINE NUCLEOSIDES 5839

PHOSPHORIBOSYLTRANSFERASE
HYPOXANTHINE TRANSPORT BY CHINESE HAMSTER FIBROBLASTS 4823
PURIFICATION OF COMPLEX U UMP SYNTHESIS FROM OROTATE OR OMP 5589

PHOSPHOROCLASTIC SYSTEM
SYNTHESIS OF C. ACIDI-URICI FERREDOXIN DERIVATIVES 1675

PHOSPHOROLYSIS
BIOCHEMICAL PROPERTIES OF IODO-AMINO-DEOXY UTP 4839

PHOSPHOROUS MAGNETIC RESONANCE
PHOSPHOROUS MAGNETIC RESONANCE STUDY OF ARGININE KINASE 6981

PHOSPHORUS MAGNETIC RELAXATION
CONFORMATION OF ATP ON PYRUVATE KINASE 2412

PHOSPHORUS MAGNETIC RESONANCE
ANALYSIS OF INTACT MUSCLE BY 31P NUCLEAR MAGNETIC RESONANCE 2584

PHOSPHORUS-31 NMR
INTERACTION OF ORGANOPHOSPHATES WITH HEMOGLOBINS 6815

PHOSPHORYL ENZYME
A NONCLASSICAL TRI UNI UNI PING PONG MECHANISM 7920

PHOSPHORYLASE
SEE ALSO GLYCOGEN PHOSPHORYLASE
SEE ALSO POLYNUCLEOTIDE PHOSPHORYLASE
SEE ALSO THYMIDINE KINASE
GLYCOGENOLYSIS AND CARDIAC SARCOPLASMIC RETICULUM 3140
ALPHA-ADRENERGIC ACTIVATION OF HEPATIC GLUCOSE OUTPUT I. 5200
ALPHA-ADRENERGIC ACTION IN LIVER. II 5209

PHOSPHORYLASE KINASE
GLYCOGENOLYSIS AND CARDIAC SARCOPLASMIC RETICULUM 3140
PHOSPHORYLASE KINASE AUTOPHOSPHORYLATION AND SUBSTRATES 7480

PHOSPHORYLASE PHOSPHATASE
PHOSPHOPROTEIN PHOSPHATE(S) 4850

PHOSPHORYLATION
SEE ALSO GLUCOKINASE
SEE ALSO HEXOKINASE
SEE ALSO PHOSPHOFRUCTOKINASE
SEE ALSO PHOTOPHOSPHORYLATION
SEE ALSO PPOTEIN, KINASES
SEE ALSO PROTEIN, MODIFICATION
SEE ALSO PROTEIN, PHOSPHORYLATION
SEE ALSO TRANSPHOSPHORYLATION
SUGAR TRANSPORT AND TRANSPHOSPHORYLATION SYSTEM 3834
AVIAN (NA+,K+)ATPASE PURIFICATION AND NH2-TERMINAL SEQUENCE 4365
PHOSPHORYLATION OF PHOSPHOGLYCERATE MUTASE AND SYNTHASE 4817
PHOSPHORYLATION OF THE SARCOPLASMIC RETICULUM MEMBRANE 6355
PHOSPHORYLATION OF EUKARYOTIC INITIATION FACTORS 6471
CA2+ AFFINITY TO PHOSPHORYLATED SR ATPASE 7275
ACID-INDUCED PHOSPHORYLATION OF BOUND ADP 7417
PHOSPHORYLASE KINASE AUTOPHOSPHORYLATION AND SUBSTRATES 7480
SYNTHESIS OF ATP BY ISOLATED CF1 VIA TRANSPHOSPHORYLATION 7796
A NONCLASSICAL TRI UNI UNI PING PONG MECHANISM 7920

PHOSPHORYLATION, MEMBRANE
DESENSITIZATION BY LH OF LH-RESPONSIVE ADENYLYL CYCLASE 2653
CORRECTION TO ROCKAERT ET AL VOL. 251 (1976) P. 2653 5429

PHOSPHORYLATION, OXIDATIVE
EFFECT OF HYDROGEN SHUTTLES ON FATTY ACID OXIDATION 277
ATP-DEPENDENT PROPERTIES OF MITOCHONDRIA 934
STOICHIOMETRY OF PROTON EJECTION DURING CALCIUM UPTAKE 968
SIDEDNESS OF MEMBRANE PHOSPHORYLATION DURING ATP SYNTHESIS 1413
CORRECTION TO GARRETT + PENEFSKY VOL. 250 (1975) P.6640 1846
HEPATIC MITOCHONDRIAL ACETALDEHYDE OXIDATION 4908
CALCIUM-INDUCED TRANSITION IN MITOCHONDRIA 5169
OXIDATIVE PHOSPHORYLATION IN VESICLES OF E. COLI 5315
STOICHIOMETRY OF MITOCHONDRIAL PROTON EJECTION 5670
TIGHTLY BOUND NUCLEOTIDES IN MITOCHONDRIAL ATPASE 7103
TIGHTLY BOUND NUCLEOTIDES IN ETPH 7110
MITOCHONDRIAL H+/SITE RATIO 7442

PHOSPHORYLCHOLINE
EQUILIBRIUM CONSTANT OF PHOSPHORYLCHOLINE HYDROLYSIS 7162

PHOSPHOSERINE
SEE ALSO PHOSPHOPROTEINS
SEE ALSO PROTEIN, KINASES
SEE ALSO SERINE (IN PROTEINS)
P-ENZYME INTERMEDIATE IN THE GLUCOSE-1,6-P2 SYNTHASE 5431

PHOSPHOSERINE (IN PROTEINS)
CELL-CYCLE-SPECIFIC PHOSPHORYLATION SITES OF HISTONE F1 3685

PHOSPHOTHREONINE
SEE ALSO PHOSPHOPROTEINS
SEE ALSO PROTEIN, KINASES
SEE ALSO THREONINE (IN PROTEINS)

PHOSPHOTHREONINE (IN PROTEINS)
CELL-CYCLE-SPECIFIC PHOSPHORYLATION SITES OF HISTONE F1 3685

PHOSPHOTRANSFERASE SYSTEM
REGULATION OF CARBOHYDRATE METABOLISM IN BACTERIA 883
CARBOHYDRATE UPTAKE IN GRAM POSITIVE BACTERIA 893
REGULATION OF ADENYLATE CYCLASE BY PTS ENZYMES II 2462
SUGAR TRANSPORT AND TRANSPHOSPHORYLATION SYSTEM 3834
REGULATION OF CARBOHYDRATE METABOLISM IN ESCHERICHIA COLI 5522
MUTANTS OF BACTERIAL PHOSPHOTRANSFERASE SYSTEM 6584
EFFECT OF CRR MUTATION ON REPRESSION OF ENZYME SYNTHESIS 6598
INDUCER EXCLUSION AND REGULATION OF SUGAR TRANSPORT SYSTEMS 6606

PHOSPHOTRANSFERASES
SEE ALSO SPECIFIC PHOSPHOTRANSFERASE
NUCLEOSIDE PHOSPHOTRANSFERASE FROM ERWINIA HERBICOLA 2330

PHOSVITIN
PURIFICATION OF A VIRION PROTEIN KINASE 3176

PHOTOACTIVATION
PHOTOACTIVATED CROSS-LINKING OF MEMBRANE PROTEINS 7413

PHOTOCHEMISTRY
SEE ALSO ULTRAVIOLET

PHOTOPHOSPHORYLATION
PHOTOPHOSPHORYLATION AND INTERNAL H-PLUS CONCENTRATION 1610
CHLOROPLAST PHOSPHORYLATION 4165
NUCLEOTIDE EXCHANGE INTO COUPLING FACTOR 1 6874
CHEMICAL CROSS-LINKING OF CHLOROPLAST COUPLING FACTOR 1 6953
ENERGY-DEPENDENT AMINO GROUP EXPOSURE ON CHLOROPLAST CF1 7168
SYNTHESIS OF ATP BY ISOLATED CF1 VIA TRANSPHOSPHORYLATION 7796

PHOTORECEPTORS
ENZYME ACTIVITIES IN SUBCELLULAR FRACTIONS OF BOVINE RETINA 4700

PHOTOSYNTHESIS
SEE ALSO CHLOROPLASTS
AMINO ACID SEQUENCE OF R. GELATINOSA HIPIP 129
ORGANIZATION OF CHLOROPLAST MEMBRANES IN C. REINHARDI 247
3-MERCAPTOPICOLINIC ACID. INHIBITION OF C-4 PHOTOSYNTHESIS 5824
CHLOROPLAST NADP-GLYCERALDEHYDE 3-PHOSPHATE DEHYDROGENASE 6456
ENERGY-DEPENDENT AMINO GROUP EXPOSURE ON CHLOROPLAST CF1 7168

PHYCOCYANOBILIN
CLEAVAGE OF PHYCOCYANOBILIN FROM C-PHYCOCYANIN 2405

PHYTOHEMAGGLUTININS
SEE ALSO AGGLUTININS
SEE ALSO CONCANAVALIN A
SEE ALSO LECTINS
CONTROL OF PYRIMIDINE SYNTHESIS BY GUANINE AND GUANOSINE 1427

PHYTOSPHINGOSINE
COMPOSITION AND STRUCTURE OF LIPOPHOSPHONOGLYCAN 2976

PINEAL GLAND
ANDROGEN RECEPTORS IN RAT BRAIN 4047

PISUM SATIVUM
SEE ALSO PEAS
SITES OF SYNTHESIS OF MAJOR PROTEINS IN PLANT LEAF TISSUE 2848

PITUITARY
SEE ALSO HYPOPHYSECTOMY
SEE ALSO SPECIFIC HORMONES
AMINO ACID SEQUENCE OF HUMAN FSH-BETA SUBUNIT 993
CHARACTERIZATION OF PORCINE NEUROPHYSIN III 2735
SYNTHESIS OF A LARGE TRANSLATION PRODUCT OF PROLACTIN MRNA 2801
M-RNA-DIRECTED CELL-FREE SYNTHESIS OF A PROLACTIN PRECURSOR 2842
BINDING OF POLYPEPTIDE HORMONES TO BOVINE NEUROPHYSINS 2929
TRH METABOLISM BY HAMSTER HYPOTHALAMUS 3229
ANDROGEN RECEPTORS IN RAT BRAIN 4047
BIOSYNTHESIS OF ACTH IN MOUSE PITUITARY TUMOR CELLS 4115
HIGH MOLECULAR WEIGHT FORMS OF ACTH ARE GLYCOPROTEINS 4121

PLACENTA
BIOSYNTHESIS OF HUMAN PLACENTAL LACTOGEN MRNA 820
KINETIC PROPERTIES OF HUMAN PLACENTAL AROMATASE 1625
PLACENTAL 3BETA-OH-STEROID DEHYDROGENASE DELTA-5 ISOMERASE 1632
CELL-FREE SYNTHESIS OF HUMAN PLACENTAL LACTOGEN 1723
CHARACTERIZATION OF KR ALKALINE PHOSPHATASE 2620
BOVINE PLACENTAL LACTOGEN 2703
SYNTHESIS OF HPL AND HCG BY PLACENTAL POLYRIBOSOMES AND MRNA 2945
CRYSTALLIZATION OF ESTRADIOL 17-BETA-DEHYDROGENASE 3700
HUMAN CORREXONUCLEASE A REPAIR ENZYME FROM PLACENTA 4579

PLANTS
SEE ALSO AUXINS
SEE ALSO CHLOROPLASTS
SEE ALSO PEAS
STRUCTURE OF PLANT CELL WALLS 5904

PLASMA
SEE ALSO CLOTTING, BLOOD
SEE ALSO LIPOPROTEINS
A NEW VITAMIN K-DEPENDENT PROTEIN 355
OLIGOSACCHARIDES IN ALPHA-1-PROTEASE INHIBITOR 471
ACTION OF FIBRIN-STABILIZING FACTOR IN CLOTTING PLASMA 1639
COLCHICINE INHIBITION OF HEPATIC GLYCOPROTEIN SECRETION 3887
CARBAMATE IN GLYCYLGLYCINE PLASMA AND TISSUE EXTRACTS 4398
PHENYLALANINE AMMONIA-LYASE INDUCTION PURIFICATION CLEARANCE 4646
COMPARISON OF NORMAL AND Z-VARIANT ALPHA-1-ANTITRYPSINS 4751
25-HYDROXYVITAMIN D TRANSPORT IN HUMAN PLASMA 4803
ALPHA-2-PLASMIN INHIBITOR IN HUMAN PLASMA 5956
EFFECT OF GLYCOSYLATION ON PLASMA HALF-LIFE OF RIBONUCLEASE 6016
SELF-ASSOCIATION OF RHESUS MONKEY APOLIPOPROTEIN A-I 7437

PLASMA MEMBRANES
SEE ALSO MEMBRANES

PLASMA PROTEINS
PROTEIN DEGRADATION IN REGENERATING LIVER 2891

PLASMACYTOMA CELLS
SUBUNIT STRUCTURE OF MOUSE PLASMACYTOMA RNA POLYMERASE III 1064

PLASMIDS
SEE ALSO COLICINS

PLASMIN
CHARACTERIZATION OF FIBRINOGEN AND FIBRIN FRAGMENT E SPECIES 1591

AFFINITY CHROMATOGRAPHY FORMS OF HUMAN PLASMINOGEN + PLASMIN 3693
HUMAN PLASMINOGEN ACTIVATION BY UROKINASE 3906
STREPTOKINASE FRAGMENTS 3913
FUNCTIONAL PLASMIN LIGHT CHAIN-STREPTOKINASE COMPLEX 5810
PLASMIN INHIBITOR
ALPHA-2-PLASMIN INHIBITOR IN HUMAN PLASMA 5956
PLASMINOGEN
AFFINITY CHROMATOGRAPHY FORMS OF HUMAN PLASMINOGEN + PLASMIN 3693
HUMAN PLASMINOGEN ACTIVATION BY UROKINASE 3906
STREPTOKINASE FRAGMENTS 3913
ON THE ROLE OF PLASMINOGEN ACTIVATOR IN OVULATION 5694
FUNCTIONAL PLASMIN LIGHT CHAIN-STREPTOKINASE COMPLEX 5810
HUMAN PLASMINOGEN-STREPTOKINASE ACTIVATOR 6495
ACTIVATION OF DOG PLASMINOGEN BY STREPTOKINASE 6624
PLASMINOGEN ACTIVATOR
FUNCTIONAL PLASMIN LIGHT CHAIN-STREPTOKINASE COMPLEX 5810
PLATELETS
SEE ALSO CLOTTING, BLOOD
PURIFICATION OF HUMAN PLATELET FACTOR 4 324
MECHANISM OF THROMBIN-MEDIATED BURST IN O2 USE BY PLATELETS 2536
PLATELET FACTOR FOUR 4273
PLATELET PROTEASE INHIBITORS 4514
CYCLIC 3-PRIME 5-PRIME-NUCLEOTIDE PHOSPHODIESTERASE 5726
PLATELET GLYCOCALICIN I. SURFACE ORIENTATION 5944
PLATELET GLYCOCALICIN II. PURIFICATION 5950
IMMUNOSORPTION OF MICROTUBULE PROTEIN 6135
COLLAGEN-PLATELET INTERACTION 6347
CYCLIC NUCLEOTIDE PHOSPHODIESTERASE SECRETION FROM PLATELETS 7560
PNEUMOCOCCUS
SEE ALSO DIPLOCOCCUS PNEUMONIAE
POKY MUTANTS
SEE ALSO NEUROSPORA CRASSA
POLY A
ALL RNA SUBUNITS FROM RSV CONTAIN POLY A 150
PURIFICATION AND PROPERTIES OF TROUT TESTIS PROTAMINE MRNA 1455
CELL-FREE SYNTHESIS OF HUMAN PLACENTAL LACTOGEN 1723
METHYLATED, BLOCKED 5-PRIME TERMINI OF YEAST M-RNA 2898
STABILIZATION OF RNA BY POLY(A)-INDUCED INHIBITION OF RNASE 3287
ESTROGEN EFFECT ON COMPLEXITY OF POLY(A)-RNA IN OVIDUCT 3738
RNA POLYMERASE FROM VESICULAR STOMATITIS VIRUS 4367
SHORTENING OF POLY(A) REGION OF MOUSE GLOBIN MESSENGER RNA 5512
POLYNUCLEOTIDE INHIBITION OF HUMAN LIVER RIBONUCLEASE 5745
POLY(A)-RICH RIBONUCLEOPROTEIN COMPLEXES IN HELA MRNA 5888
LIPOPROTEIN MRNA FROM ESCHERICHIA COLI 6259
REGULATION OF FOLATE REDUCTASE SYNTHESIS IN SARCOMA 180 CELL 6987
POLY A POLYMERASE
POLYRIBOADENYLATE POLYMERASE OF ESCHERICHIA COLI 6274
POLY G
POLYNUCLEOTIDE INHIBITION OF HUMAN LIVER RIBONUCLEASE 5745
POLY U-SEPHAROSE
REGULATION OF FOLATE REDUCTASE SYNTHESIS IN SARCOMA 180 CELL 6987
POLY U,G
TRANSLATION SPECIFICITY OF BACTERIAL RIBOSOMES AND MRNA 2499
POLYAMINES
SEE ALSO SPERMINE
EFFECT OF METALS ON ESCHERICHIA COLI ARGINYL-TRNA SYNTHETASE 241
ORNITHINE DECARBOXYLASE DURING DEVELOPMENT OF MAMMARY GLAND 1738
CORRECTION TO OKA + PERRY VOL. 251 (1976) P. 1738 3520
COMPARTMENTATION OF ORNITHINE IN NEUROSPORA 3948
BIOSYNTHESIS OF ORNITHINE DECARBOXYLASE 4436
POLYNUCLEOTIDE INHIBITION OF HUMAN LIVER RIBONUCLEASE 5745
POLYAMINES AND TRNA NUCLEOTIDYLTRANSFERASE 6646
POLYARGININE
SEE ALSO HISTONES
POLYCYCLIC HYDROCARBONS
GENETICS OF METYRAPONE AND ETHYL ISOCYANIDE BINDING TO P 450 5397
POLYETHYENE GLYCOL
PROTEIN CRYSTALS FROM POLYETHYLENE GLYCOL 6300
POLYISOPRENOL PHOSPHATE OLIGOSACCHARIDE
FORMATION OF LIPID-SACCHARIDE INTERMEDIATE BY THYROID SLICES 6400
POLYISOPRENYL MANNOSYL PHOSPHATES
ANOMERIC CONFIGURATION OF D-MANNOSYL RETINYL PHOSPHATE 6465
POLYISOPRENYL PHOSPHOGLUCOSE
FORMATION OF LIPID-LINKED SUGAR COMPOUNDS IN H. SALINARIUM 7289
POLYISOPRENYL PHOSPHOMANNOSE
FORMATION OF LIPID-LINKED SUGAR COMPOUNDS IN H. SALINARIUM 7289
POLYISOPRENYL PYROPHOSPHO-N-ACETYLGLUCOSAMINE
FORMATION OF LIPID-LINKED SUGAR COMPOUNDS IN H. SALINARIUM 7289
POLYLYSINE
SEE ALSO HISTONES
POLYMERASES
SEE ALSO DNA POLYMERASE
SEE ALSO RNA POLYMERASE
POLYMERIZATION
PSEUDOMONAS 7A GLUTAMINASE-ASPARAGINASE 5375
POLYMERS, SYNTHETIC
ENZYME (CHYMOTRYPSIN) ATTACK ON POLYMER SIDE CHAINS 2083
POLYNUCLEOTIDE KINASE
SYNTHESIS OF A TYROSINE SUPPRESSOR TRNA PRECURSOR GENE 565
SYNTHESIS OF A TYROSINE SUPPRESSOR TRNA PRECURSOR GENE 634
SYNTHESIS OF A TYROSINE SUPPRESSOR TRNA PRECURSOR GENE 642
SYNTHESIS OF A TYROSINE SUPPRESSOR TRNA PRECURSOR GENE 651
SYNTHESIS OF A TYROSINE SUPPRESSOR TRNA PRECURSOR GENE 658
SYNTHESIS OF A TYROSINE SUPPRESSOR TRNA PRECURSOR GENE 676
POLYNUCLEOTIDE LIGASE
SYNTHESIS OF A TYROSINE SUPPRESSOR TRNA PRECURSOR GENE 642
SYNTHESIS OF A TYROSINE SUPPRESSOR TRNA PRECURSOR GENE 667
POLYNUCLEOTIDE PHOSPHORYLASE
POLYRIBOADENYLATE POLYMERASE OF ESCHERICHIA COLI 6274
POLYNUCLEOTIDES
SEE ALSO DNA
SEE ALSO POLY A
SEE ALSO RNA
POLYOLS
SEE ALSO GLYCEROL
POLYOMA VIRUS
SEE ALSO TRANSFORMATION
PURIFICATION OF AN ENDONUCLEASE FROM NUCLEI OF 3T3 CELLS 7746
POLYPEPTIDE SYNTHESIS
SEE ALSO PROTEIN, SYNTHESIS
POLYPEPTIDES
SEE ALSO PEPTIDES
STRUCTURAL POLYPEPTIDES OF TYPE-C VIRUS 4859
POLYPOROUS SULFUREUS
BETA-MANNOSIDASE FROM THE MUSHROOM POLYPORUS SULFUREUS 4384
POLYPRENOL PHOSPHATE OLIGOSACCHARIDE
COMPARISON OF OLIGOSACCHARIDE-LIPIDS FROM SEVERAL TISSUES 6420
POLYRIBOSOMES
SEE ALSO PROTEIN, SYNTHESIS
SEE ALSO RIBOSOMES
POLYSACCHARIDES
SEE ALSO GLYCOGEN
SEE ALSO GLYCOPROTEINS
SEE ALSO LIPOPOLYSACCHARIDES
HETEROCYST AND SPORE POLYSACCHARIDES 2967
PURIFICATION OF THE PNEUMOCOCCAL AUTOLYSIN (AMIDASE) 4199
DEACETYLATION ACTIVITY OF SALMONELLA PHAGE C341 5361
POLYSOMES
SEE ALSO PROTEIN, SYNTHESIS
SEE ALSO RIBOSOMES
SEE ALSO RNA, MESSENGER
CHLORAL HYDRATE CAUSES BREAKDOWN OF POLYSOMES IN VIVO 2637
DISULFIDE LINKING OF PRO-ALPHA CHAINS 3538
EFFECT OF HYPOPHYSECTOMY ON ALBUMIN SYNTHESIS 3760
PORPHYRINS
SEE ALSO HEME
SEE ALSO HEMOGLOBIN
SEE ALSO MYOGLOBIN
REACTIONS OF RECONSTITUTED MYOGLOBINS WITH O2 AND CO 1418
PROTOPORPHYRINOGEN OXIDASE ACTIVITY IN LIVER MITOCHONDRIA 3730
POST-PROLINE CLEAVING ENZYME
THE ENDOPEPTIDASE POST-PROLINE CLEAVING ENZYME 7593
POTASSIUM
SEE ALSO ATPASE
SEE ALSO TRANSPORT, ION
CROSSLINKING OF NA+K ATPASE 1247
CORRECTION TO YANG + SRIVASTAVA VOL. 250 (1975) P.79 1531
NEW INTERMEDIATE IN MECHANISM OF NA + K ATPASE 2186
ADENINE NUCLEOTIDE TRANSPORT 2446
POST-TRANSCRIPTIONAL CONTROL OF BETA-GALACTOSIDASE SYNTHESIS 2654
A23187 INCREASES POTASSIUM PERMEABILITY OF ERYTHROCYTES 3489
SIZE-DEPENDENT EFFECTS OF MONOVALENT CATIONS 4315
AVIAN (NA+,K+)ATPASE PURIFICATION AND NH2-TERMINAL SEQUENCE 4365
SPECIFIC SODIUM-22 BINDING TO A PURIFIED (NA+-K+)-ATPASE 4794
HORMONE-SENSITIVE RESEALED GHOSTS 4930
STIMULATION OF CALCIUM PUMP BY MONOVALENT CATIONS 6947
POTENTIAL, OXIDATION-REDUCTION
OXIDATION-REDUCTION POTENTIALS OF LIPOAMIDE DEHYDROGENASE 3956
POX VIRUS
CORRECTION TO MARTIN ET AL VOL. 250 (1975) P. 9322 2539
SPECIFICITY OF VACCINIA MRNA GUANYLYL- AND METHYLTRANSFERASE 7313
PREGNANCY
BIOSYNTHESIS OF HUMAN PLACENTAL LACTOGEN MRNA 820
PREGNENOLONE
PLACENTAL 3BETA-OH-STEROID DEHYDROGENASE DELTA-5 ISOMERASE 1632
ADRENAL CLEAVAGE OF A 20-PHENYL ANALOG OF CHOLESTEROL 2087
PREGNENOLONE-16-ALPHA-CARBONITRILE
DE NOVO PROTEIN SYNTHESIS OF CYTOCHROME P 450 1817
PRESSMAN CELL
PHOSPHOLIPIDS AS IONOPHORES 1326
PROCAINE
CALCIUM BINDING TO ADIPOCYTE PLASMA MEMBRANES 5345
PROCOLLAGEN
SEE ALSO COLLAGEN
BASEMENT MEMBRANE PROCOLLAGEN IN PARIETAL YOLK SAC CULTURES 1789
FUNCTION OF PROCOLLAGEN COOH-TERMINAL EXTENSION 2670
DISULFIDE LINKING OF PRO-ALPHA CHAINS 3538
TRIPLE HELIX WAY FORM BETWEEN POLYSOME-BOUND COLLAGEN CHAINS 7137
PROCOLLAGENASE
SYNTHESIS AND RELEASE OF PROCOLLAGENASE BY FIBROBLASTS 3162
PROGESTERONE
SEE ALSO CORTICOSTEROIDS
SEE ALSO STEROIDS
PLACENTAL 3BETA-OH-STEROID DEHYDROGENASE DELTA-5 ISOMERASE 1632
ADRENAL CLEAVAGE OF A 20-PHENYL ANALOG OF CHOLESTEROL 2087
THIOL GROUP AND FE+++ REQUIREMENT FOR UTERINE PHOSPHATASE 4688
PROGESTERONE RECEPTOR REGULATION OF CHROMATIN TRANSCRIPTION 5166
STEROID RECEPTOR SUBUNIT EFFECTS ON CHROMATIN TRANSCRIPTION 5178
CORTICOSTEROID-BINDING PROTEINS IN COLOSTRUM AND MILK 5272
PROGESTERONE BINDING BY RABBIT AND GUINEA PIG UTERINE NUCLEI 5667
PROHORMONES
REDUCTION AND REOXIDATION OF DISULFIDES OF LH ALPHA 6392
PROLACTIN
ORNITHINE DECARBOXYLASE DURING DEVELOPMENT OF MAMMARY GLAND 1738
BOVINE PLACENTAL LACTOGEN 2763
POLYAMINE TRANSPORT IN MAMMARY GLAND 2795
SYNTHESIS OF A LARGE TRANSLATION PRODUCT OF PROLACTIN MRNA 2801
M-RNA-DIRECTED CELL-FREE SYNTHESIS OF A PROLACTIN PRECURSOR 2842
CORRECTION TO OKA + PERRY VOL. 251 (1976) P. 1738 3520
PROLINE
SEE ALSO HYDROXYPROLINE
ACTIVE TRANSPORT OF AMINO ACIDS IN MYCOBACTERIUM PHLEI 2493
OLIGOPEPTIDE TRANSPORT 5300
PROLINE (IN PROTEINS)
THE ENDOPEPTIDASE POST-PROLINE CLEAVING ENZYME 7593
PROLINE PEPTIDASE
OLIGOPEPTIDE TRANSPORT 5300
PROLINE REDUCTASE
PROLINE REDUCTASE PURIFICATION AND PROPERTIES 2435
PROLINE TRNA
TRNA BIOSYNTHESIS SPECIFICITY OF RNASE P 2440
PROLYL HYDROXYLASE
L-3,4-DEHYDROPROLINE AND COLLAGEN METABOLISM 503
SUBMICROSOMAL LOCALIZATION OF PROLYL HYDROXYLASE 4770
PROMOTER
SEE ALSO DNA
SEE ALSO GENES
NUCLEOTIDE SEQUENCES AT THE TWO ENDS OF TRNA-TYR GENES 5124
PROMOTOR
SEE ALSO LACTOSE OPERON
PRONASE
PRONASE CARBOXYPEPTIDASE 284
PROPARATHYROID HORMONE
PARATHYROID HORMONE CONVERTING ACTIVITY 6711
PROPIONIBACTERIA
A NONCLASSICAL TRI UNI UNI PING PONG MECHANISM 7920
PROPIONYL CO A
INTERMOLECULR TRITIUM TRANSFER IN TRANSCARBOXYLASE REACTION 902
PROPRANOLOL
SEE ALSO CATECHOLAMINES
PROSTAGLANDIN CYCLOOXYGENASE
MECHANISM FOR SELF-DEACTIVATION OF PROSTAGLANDIN SYNTHETASE 7329
PROSTAGLANDINS
PROSTAGLANDIN BIOSYNTHESIS AND VASOACTIVE SUBSTANCES 776
ORNITHINE DECARBOXYLASE DURING DEVELOPMENT OF MAMMARY GLAND 1738
GLYCOGEN METABOLISM IN ASTROCYTOMA AND NEUROBLASTOMA CELLS 2615
PROSTAGLANDIN ENDOPEROXIDE SYNTHETASE 2629
PGE1 RECEPTORS AND ADENYLATE CYCLASE IN CULTURED CELLS 3037
THE PROSTAGLANDIN SYSTEM IN DEVELOPING LAMB BRAIN 3381
REGULATION OF NEUROBLASTOMA ADENYLATE CYCLASE 3399
CORRECTION TO OKA + PERRY VOL. 251 (1976) P. 1738 3520

PURIFICATION OF PROSTAGLANDIN-FORMING CYCLOOXYGENASE 5575
ON THE ROLE OF PLASMINOGEN ACTIVATOR IN OVULATION 5694
STIMULATION OF PROSTAGLANDIN SYNTHESIS 5814
GLUTATHIONE CONJUGATES OF PROSTAGLANDIN A1 6550
REFRACTORINESS BY ISOPROTERENOL IN MUTANT CELLS 7572
PROSTATE
BINDING PROPERTIES OF ANDROGEN RECEPTORS 5620
PROTAMINE
ASSAY OF TROUT TESTIS PROTAMINE MRNA 1446
PURIFICATION AND PROPERTIES OF TROUT TESTIS PROTAMINE MRNA 1455
PROPERTIES OF CYTOSOL AND MEMBRANE-DERIVED PROTEIN KINASES 2192
PROTEASE INHIBITOR
OLIGOSACCHARIDES IN ALPHA-1-PROTEASE INHIBITOR 471
PROTEASES
SEE ALSO CARBOXYPEPTIDASE
SEE ALSO CHYMOTRYPSIN
SEE ALSO PLASMIN
SEE ALSO STREPTOKINASE
SEE ALSO TRYPSIN
SEE ALSO UROKINASE
PREPARATION OF YEAST (S. CEREVISIAE) PYRUVATE KINASE 124
PRONASE CARBOXYPEPTIDASE 204
PURIFICATION OF TWO BLACK-EYED PEA PROTEASE INHIBITORS 734
OPTICAL PROPERTIES OF BLACK-EYED PEA PROTEASE INHIBITORS 741
SUBUNIT INTERACTIONS OF BLACK-EYED PEA PROTEIN INHIBITORS 747
HALF-SITE REACTIVITY IN PROTEASE-INHIBITOR COMPLEXES 754
ENERGETICS OF PROTEASE-BLACK-EYED PEA INHIBITOR INTERACTIONS 763
ACYLATION OF SUBTILISIN CARLSBERG BY PHENYL ESTERS 1006
HALOMETHYL KETONES FORM TETRAHEDRAL ADDUCTS WITH SUBTILISIN 1097
SPECIFICITY OF CHYMOTRYPSIN WITH CARBOXYL GROUPS BLOCKED 2353
NEW VITAMIN K-DEPENDENT ZYMOGEN 3652
PLATELET PROTEASE INHIBITORS 4514
CATHEPSIN D FROM PORCINE SPLEEN 4528
COMPARISON OF NORMAL AND Z-VARIANT ALPHA-1-ANTITRYPSINS 4751
INHIBITION OF FACTOR XIIA BY ANTITHROMBIN-HEPARIN COFACTOR 6481
ACTIVATION OF DOG PLASMINOGEN BY STREPTOKINASE 6624
PEPSTATIN INHIBITION OF ACID PROTEASES 7088
MECHANISM OF INTRAMOLECULAR ACTIVATION OF PEPSINOGEN 7095
NEUROTOXIC PHOSPHOLIPASE A SEQUENCE 7343
SPECIFIC SPORE PROTEASE FROM B. MEGATERIUM 7853
PROTEIN, ACETYLATION
ALPHA-N-ACETYLATION OF EHRLICH ASCITES PROTEINS 1009
PROTEIN, ACIDIC
FRACTIONATION OF RIBOSOMAL PROTEINS 1808
PROTEIN, AMINO ACIDS
COMPLETE AMINO ACID ANALYSIS OF PROTEINS 1936
PROTEIN, ASSEMBLY
FOLDING PATHWAY OF REDUCED LYSOZYME 3147
REACTIVATION OF REDUCED HEN EGG LYSOZYME FRAGMENT 1-127 3154
PROTEIN, ASSOCIATION
SEE ALSO PROTEIN, PROTEIN INTERACTION
NITRATE REDUCTASE FROM ESCHERICHIA COLI 2207
PROTEIN, BASIC
SEE ALSO HISTONES
SEE ALSO PROTAMINE
MICROHETEROGENEITY OF MYELIN BASIC PROTEIN 2671
SPECIFIC SPORE PROTEASE FROM B. MEGATERIUM 7853
PROTEIN, BINDING
SEE ALSO BINDING PROTEINS
SEE ALSO RECEPTORS
STEROL CARRIER PROTEIN 5496
PROGESTERONE BINDING BY RABBIT AND GUINEA PIG UTERINE NUCLEI 5607
THYROXINE ANALOGUE BINDING TO THYROXINE BINDING GLOBULIN 6489
MITOCHONDRIAL UPTAKE OF HYDROXOCOBALAMIN 6616
THIODIGALACTOSIDE BINDNG TO ESCHERICHIA COLI M PROTEIN 6735
PROTEIN, CARBAMYLATION
REACTIVITY OF CYANATE WITH VALINE-1(ALPHA) OF HEMOGLOBIN 7638
PROTEIN, CARBOHYDRATE IN
SEE ALSO GLYCOPROTEINS
PROTEIN, CARRIER
M. SEXTA JUVENILE HORMONE CARRIER PROTEIN 4979
PROTEIN, CHROMOSOMAL
SEE ALSO PROTEIN, NUCLEAR
PROTEIN, CONFORMATION
SEE ALSO ALLOSTERISM
SEE ALSO ENZYMES, REGULATION IN VITRO
SEE ALSO HEMOGLOBIN
CONFORMATIONS OF PYRUVATE KINASE BY MONOVALENT CATIONS 73
PURIFICATION OF KIDNEY 3-HYDROXYANTHRANILIC ACID OXYGENASE 368
KINETICS OF INDUCER BINDING TO LAC REPRESSOR PROTEIN 1171
CONFORMATIONAL CHANGES IN HBCO FOLLOWING LASER PHOTOLYSIS 1533
SUBSTRATE CONFORMATIONS ON PYRUVATE KINASE 2431
ASSIGNMENT OF RNASE NMR RESONANCES 2644
CONFORMATION OF S-PROTEIN 2648
STRUCTURE OF CREATINE KINASE-SUBSTRATE COMPLEXES 2777
INTERACTIONS BETWEEN TRYPTOPHANASE PROTOMERS 2814
TYROSINE RESIDUES IN PORCINE MUSCLE ADENYLATE KINASE 3021
FOLDING PATHWAY OF REDUCED LYSOZYME 3147
REACTIVATION OF REDUCED HEN EGG LYSOZYME FRAGMENT 1-127 3154
LAC REPRESSOR QUATERNARY STRUCTURE 3359
STABILITY AND ACTIVITY OF ISOPROPYLMALATE ISOMERASE 3545
BINDING OF SUBSTRATES TO RIBONUCLEOTIDE REDUCTASE 3616
LAC REPRESSOR TRYPTOPHANS 3774
CHEMICALLY PREPARED AND TISSUE-ENDOGENOUS APOFERRITINS 3856
HORMONE BINDING EFFECTS ON NEUROPHYSIN QUATERNARY STRUCTURE 3965
CYCLIC 3-PRIME 5-PRIME-NUCLEOTIDE PHOSPHODIESTERASE 4193
REFOLDING OF REDUCED BOVINE SERUM ALBUMIN 4603
INDEPENDENT REFOLDING OF DOMAINS OF SERUM ALBUMIN 4609
SUBSTRATE-INDUCED ALTERATIONS IN HUMAN CARBONIC ANHYDRASE B 4867
PURIFICATION OF COMPLEX U UMP SYNTHESIS FROM OROTATE OR OMP 5589
HYSTERETIC KINETICS OF ERYTHROCYTE PYRUVATE KINASE 5600
LIGAND INDUCED STRUCTURAL CHANGES IN PHOSPHOFRUCTOKINASE 5637
CONFORMATION STABILITY OF POLYPEPTIDES FROM HUMAN HOLO-HDL 6013
LEGHEMOGLOBIN AND ITS COMPLEXES WITH NICOTINATE AND ACETATE 6090
X-RAY STRUCTURE AND LIGAND BINDING OF PHOSPHORYLASE A 6142
CA2+-INDUCED CONFORMATIONAL CHANGE IN ADRENAL MEDULLA TN-C 6315
RELIPIDATION OF APOLIPOPROTEINS 6367
REDUCTION OF DISULFIDES IN GLYCOPROTEIN HORMONES 6388
STUDIES ON THE FOURTH STEP IN LIGAND BINDING TO HEMOGLOBIN 6692
SPIN LABEL STUDIES ON APOHEMOGLOBIN 6838
A STUDY OF RENATURATION OF REDUCED HEN EGG WHITE LYSOZYME 6934
PROTON INTERACTIONS OF FERRITIN AND APOFERRITIN 6963
TRIPLE HELIX MAY FORM BETWEEN POLYSOME-BOUND COLLAGEN CHAINS 7137
ENERGY-DEPENDENT AMINO GROUP EXPOSURE ON CHLOROPLAST CF1 7168
CA2+ AFFINITY TO PHOSPHORYLATED SR ATPASE 7275
MYOGLOBIN WITH 13C IN METHIONINE METHYLS 7452
REACTIVITY OF CYANATE WITH VALINE-1(ALPHA) OF HEMOGLOBIN 7638
SQUID MANTLE MUSCLE ADENYLATE KINASE 7810
PROTEIN, CONTRACTILE
SEE ALSO ACTOMYOSIN
SEE ALSO MYOSIN
TROPONIN-C-LIKE PROTEIN IN BOVINE ADRENAL MEDULLA 1603
PROTEIN, COOPERATIVITY
SEE ALSO HEMOGLOBIN
SEE ALSO PROTEIN, CONFORMATION
SEE ALSO PROTEIN, SUBUNITS
PROTEIN, CROSS-LINKING
SEE ALSO PROTEIN, SUBUNITS
PHOTOACTIVATED CROSS-LINKING OF MEMBRANE PROTEINS 7413
PROTEIN, CRYSTALLIZATION
CRYSTALLIZATION OF ESTRADIOL 17-BETA-DEHYDROGENASE 3700
PROTEIN, CRYSTALS
PROTEIN CRYSTALS FROM POLYETHYLENE GLYCOL 6300
PROTEIN, DEGRADATION
SEE ALSO PROTEIN, TURNOVER
TURNOVER OF THE PLASMA MEMBRANE PROTEINS OF HTC CELLS 872
AMINO ACID COMPARTMENTATION AND HEPATIC PROTEIN TURNOVER 1375
STOICHIOMETRY OF HELA NUCLEOLAR RIBOSOMAL PROTEINS 2867
PROTEIN DEGRADATION IN REGENERATING LIVER 2891
MALIC ENZYME SYNTHESIS IN CULTURE 3027
PROTEIN DEGRADATION IN HUMAN FIBROBLASTS 3521
REGULATION OF 6-PHOSPHOGLUCONATE DEHYDROGENASE SYNTHESIS 3539
REGULATION OF PHOSPHOENOLPYRUVATE CARBOXYKINASE DEGRADATION 3586
VALINE POOL AND PROTEIN SYNTHESIS AND DEGRADATION 4458
SPECIFICITY OF PROTEIN TURNOVER IN TOMATO LEAVES 7484
GLUCAGON EFFECT ON HEPATIC PROTEIN SYNTHESIS AND DEGRADATION 7785
EFFECT OF T3 ON (NA+, K+)ATPASE SYNTHESIS 7834
SPECIFIC SPORE PROTEASE FROM B. MEGATERIUM 7853
PROTEIN, DENATURATION
OPTICAL PROPERTIES OF BLACK-EYED PEA PROTEASE INHIBITORS 741
PHOSPHOFRUCTOKINASE STABILIZING FACTOR FROM LIVER 2323
CONFORMATIONAL PROPERTIES OF APO A-1 3749
CONFORMATION STABILITY OF POLYPEPTIDES FROM HUMAN HOLO-HDL 6013
PROTEIN, DNA-BINDING
NUCLEIC ACID HELIX-UNWINDING PROTEINS FROM CALF THYMUS 2124
DNA BINDING OF THYROID HORMONE RECEPTORS 7380
PROTEIN, EVOLUTION
SEE ALSO EVOLUTION
PROTEIN, FLUORESCENCE
SEE ALSO FLUORESCENCE
PROTEIN, FOLDING
SEE ALSO PROTEIN, CONFORMATION
PROTEIN, GAMMA GLOBULIN
SEE ALSO IMMUNOGLOBULINS
PROTEIN, GLYCO-
SEE ALSO GLYCOPROTEINS
PROTEIN, GLYCOSYLATION
SEE ALSO GLYCOPROTEINS
PROTEIN, HEME
SEE ALSO CYTOCHROME
SEE ALSO HEMOGLOBIN
SEE ALSO MYOGLOBIN
SEE ALSO TRYPTOPHAN OXYGENASE
PROTEIN, HYBRID
SEE ALSO HYBRID PROTEINS
PROTEIN, HYBRIDIZATION
SEE ALSO PROTEIN, SUBUNITS
HYBRIDIZATION OF CONCANAVALIN A SUBUNITS 4622
PROTEIN, INTERCONVERSION
SEE ALSO PROTEIN, MODIFICATION
PHOSPHOROUS MAGNETIC RESONANCE STUDY OF ARGININE KINASE 6981
PROTEIN, INTERCONVERTIBLE FORMS
INTERCONVERTIBLE FORMS OF E. COLI DIHYDROFOLATE REDUCTASE 7611
PROTEIN, IRON-CONTAINING
SEE ALSO IRON-SULFUR PROTEINS
PROTEIN, KINASES
SEE ALSO CYCLIC AMP
SEE ALSO PHOSPHOPROTEINS
SEE ALSO PROTEIN, PHOSPHORYLATION
EFFECTS OF PROTEIN KINASE ON SARCOPLASMIC RETICULUM 725
ADENINE NUCLEOTIDE LEVELS OF SPERM 787
TESTICULAR PROTEIN KINASES 914
REGULATION OF PYRUVATE DEHYDROGENASE 1364
PHOSPHORYLATION OF RIBOSOMAL PROTEIN 1500
HORMONAL CONTROL OF PROTEIN PHOSPHORYLATION IN FAT CELLS 1511
CYCLIC GMP-DEPENDENT PROTEIN KINASE FROM LUNG 1759
RABBIT SKELETAL MUSCLE GLYCOGEN SYNTHASE I 1913
PHOSPHORYLATION AXONEMAL PROTEINS IN CHLAMYDOMONAS 2161
PROPERTIES OF CYTOSOL AND MEMBRANE-DERIVED PROTEIN KINASES 2192
C-AMP ACTIVATION OF ACYL HYDROLASES IN ADIPOSE TISSUE 2882
PURIFICATION OF A VIRION PROTEIN KINASE 3176
VIRUS-SPECIFIED PROTEIN KINASE 3185
PROTEIN KINASES DURING THE CELL CYCLE 3313
SUBUNIT INTERACTIONS OF PHOSPHO- + DEPHOSPHO- PROTEIN KINASE 3375
PHOSPHORYLATION BY BOVINE BRAIN PROTEIN KINASE 3993
STIMULATORY MODULATOR OF PROTEIN KINASE 4283
EFFECTS OF TRYPSIN ON GLYCOGEN SYNTHETASE 4359
CATALYTIC FRAGMENT OF CYCLIC GMP-DEPENDENT PROTEIN KINASE 4476
AUTOACTIVATION OF PHOSPHORYLASE KINASE 4521
INTERACTION OF CYCLIC AMP WITH PROTEIN KINASE 4551
ALPHA-ADRENERGIC ACTION IN LIVER. II 5209
PHOSPHORYLATION OF PHENYLALANINE HYDROXYLASE 5310
PHOSPHORYLATION OF RNA POLYMERASE I 5408
SITES IN HISTONES PHOSPHORYLATED BY PROTEIN KINASES 6287
PHOSPHORYLATION OF EUKARYOTIC INITIATION FACTORS 6471
SELF-PHOSPHORYLATION OF PROTEIN KINASE 7526
REFRACTORINESS BY ISOPROTERENOL IN MUTANT CELLS 7572
INITIATION FACTOR IF-E2 FROM RABBIT RETICULOCYTES 7675
PROTEIN KINASE IN THE OUTER MEMBRANE OF 3T3 AND SV3T3 CELLS 7899
PROTEIN, LIGAND INTERACTIONS
CORRECTION TO LEE ET AL VOL. 256 P. 9276 1846
PROTEIN, LIPOPROTEIN
SEE ALSO LIPOPROTEINS
PROTEIN, MEMBRANE
SEE ALSO MEMBRANES
SEE ALSO RECEPTORS
2-D ELECTROPHORESIS OF ERYTHROCYTE MEMBRANE PROTEINS 253
PURIFICATION OF D-ALANINE CARBOXYPEPTIDASES I FROM E. COLI 414
PURIFICATION OF ONCORNAVIRUS PROTEINS 559
TURNOVER OF THE PLASMA MEMBRANE PROTEINS OF HTC CELLS 872
PHOSPHOLIPID ACTIVATION OF A PURIFIED MEMBRANE ENZYME 1264
LOCATION OF MITOCHONDRIAL PROTEINS BY LABELING REAGENTS 1354
STRUCTURE OF A PROKARYOTIC GLYCOPROTEIN FROM H. SALINARIUM 2005
SELF-ASSOCIATION OF CYTOCHROME B5 IN AQUEOUS SOLUTION 2113
RECONSTITUTION OF PERMEABILITY CHANNELS 2176
THYROID PEROXIDASE AND NONIONIC DETERGENTS 2525
A MEMBRANE PROTEIN INVOLVED IN DNA INITIATION 3470
GLYCOPROTEIN-ENRICHED VESICLES FROM ERYTHROCYTE GHOSTS 3580
THE PLASMA MEMBRANE OF HUMAN PLACENTA 4139
ORGANIZATION OF MEMBRANE PROTEINS IN INTACT MYELIN SHEATH 4729
SYNTHESIS IN VITRO OF INTRINSIC MEMBRANE PROTEINS 5054
ARRANGEMENT OF 95,000-DALTON PEPTIDE IN RED CELL MEMBRANE 5115

KINETIC AND IMMUNOLOGICAL STUDY OF NADH DEHYDROGENASE 5921
PURIFICATION OF THE CARBODIIMIDE-REACTIVE PROTEIN 6630
MEMBRANES OF DEVELOPING CHICK ERYTHROCYTES 6667
IMPERMEANT MALEIMIDES AND ERYTHROCYTE MEMBRANE PROTEINS 7176
EXOFACIAL COMPONENT OF ERYTHROCYTE HEXOSE TRANSPORT 7184
PHOTOACTIVATED CROSS-LINKING OF MEMBRANE PROTEINS 7413
COLICINS CAUSE DISAPPEARANCE OF MEMBRANE PROTEINS 7577
MOLECULAR PROPERTIES OF MICROSOMAL MEMBRANE PROTEINS 7699

PROTEIN, MEMBRANES
INCORPORATION OF PROTEINS INTO LIPOSOMES 6831

PROTEIN, MODIFICATION
SEE ALSO PROTEIN, INTERCONVERSION
SEE ALSO PROTEIN, KINASES
SEE ALSO PROTEIN, PHOSPHORYLATION
SEE ALSO SULFHYDRYLS (IN PROTEINS)
SEE ALSO VITAMIN K
SUBUNIT INTERACTIONS OF BLACK-EYED PEA PROTEIN INHIBITORS 747
ALPHA-N-ACETYLATION OF EHRLICH ASCITES PROTEINS 1009
THE RNASE-S-PEPTIDE ANALOGS RECOGNITION OF S-PROTEIN 1333
INACTIVATION OF PHOSPHORYLASE B BY POTASSIUM FERRATE 1553
LYSOZYME DERIVATIVE MODIFIED AT TRYPTOPHAN 123 1653
SYNTHESIS OF C. ACIDI-URICI FERREDOXIN DERIVATIVES 1675
MIDPOINT REDUCTION POTENTIAL OF C. ACIDI-URICI FERREDOXIN 1683
ARGINYL RESIDUES OF MITOCHONDRIAL ATPASE 1775
MULTIPLE KINETIC FORMS OF ADIPOSE TISSUE GLYCOGEN SYNTHASE 2316
SPECIFICITY OF CHYMOTRYPSIN WITH CARBOXYL GROUPS BLOCKED 2353
MUTATIONS AFFECTING BETA-GLUCOSIDASE IN DICTYOSTELIUM 2680
ESSENTIAL ARGININE OF ASPARTATE TRANSCARBAMYLASE 2688
TYROSINE RESIDUES IN PORCINE MUSCLE ADENYLATE KINASE 3021
DISULFIDE LINKING OF PRO-ALPHA CHAINS 3530
REGULATION OF HEPATIC PYRUVATE KINASE 3756
PH-DEPENDENT PROPERTIES OF HUMAN CARBONIC ANHYDRASE B 3862
PLATELET FACTOR FOUR 4273
HYBRIDIZATION OF CONCANAVALIN A SUBUNITS 4622
STRUCTURE OF ATP CITRATE LYASE 5242
ALKYLATION OF METHIONINE IN FUMARASE BY BENZYL BROMIDE 5711
EFFECT OF GLYCOSYLATION ON PLASMA HALF-LIFE OF RIBONUCLEASE 6016
ESSENTIAL ARGINYL RESIDUES OF D-SERINE DEHYDRATASE 6179
SITES IN HISTONES PHOSPHORYLATED BY PROTEIN KINASES 6287
CARBON 13 NMR STUDY OF REACTION OF LYSOZYME WITH IODINE 6522
TRIPLE HELIX MAY FORM BETWEEN POLYSOME-BOUND COLLAGEN CHAINS 7137
ENERGY-DEPENDENT AMINO GROUP EXPOSURE ON CHLOROPLAST CF1 7168

PROTEIN, NON-HISTONE
DNA-BINDING NON-HISTONE PROTEINS 1471
NON-HISTONES ARE POSITIVE REGULATION OF OVALBUMIN GENE 6475
DNA BINDING OF THYROID HORMONE RECEPTORS 7388

PROTEIN, NUCLEAR
SEE ALSO HISTONES
NON-HISTONE CHROMOSOMAL PROTEINS FROM HELA CELLS 548
PROTEINS OF FRIEND LEUKEMIA CELLS 555
DNA-BINDING NON-HISTONE PROTEINS 1471
PROTEIN A24 NH2- AND COOH-TERMINAL SEQUENCE 5901
DNA BINDING OF THYROID HORMONE RECEPTORS 7388
NUCLEAR LOCATION OF MAMMALIAN DNA POLYMERASE ACTIVITIES 7893

PROTEIN, NUCLEIC ACID INTERACTIONS
EFFECTS OF RNASE BINDING ON DNA CONFORMATION AND STABILITY 7198
EFFECTS OF GENE 32-PROTEIN BINDING ON DNA CONFORMATION 7215
PARAMETERS FOR GENE 32-PROTEIN BINDING TO NUCLEIC ACIDS 7240

PROTEIN, OLFACTORY MARKER
RAT OLFACTORY MARKER PROTEIN 6232

PROTEIN, ONCORNAVIRUS
PURIFICATION OF ONCORNAVIRUS PROTEINS 559

PROTEIN, OXIDATION-REDUCTION
SEE ALSO IRON-SULFUR PROTEINS

PROTEIN, PHOSPHORYLATION
SEE ALSO ATPASE
SEE ALSO PHOSPHOPROTEINS
SEE ALSO PROTEIN, KINASES
PHOSPHORYL ALKALINE PHOSPHATASES 1282
THE RIBOSOMAL PROTEINS OF SACCHAROMYCES CEREVISIAE 1799
MULTIPLE KINETIC FORMS OF ADIPOSE TISSUE GLYCOGEN SYNTHASE 2316
MICROHETEROGENEITY OF MYELIN BASIC PROTEIN 2671
PURIFICATION OF A VIRION PROTEIN KINASE 3176
VIRUS-SPECIFIED PROTEIN KINASE 3185
CELL-CYCLE-SPECIFIC PHOSPHORYLATION SITES OF HISTONE F1 3685
EFFECTS OF TRYPSIN ON GLYCOGEN SYNTHETASE 4359
AVIAN (NA+,K+)ATPASE PURIFICATION AND NH2-TERMINAL SEQUENCE 4365
PHOSPHORYLATION OF PHOSPHOGLYCERATE MUTASE AND SYNTHASE 4817
PHOSPHORYLATION OF PHENYLALANINE HYDROXYLASE 5310
PHOSPHORYLATION OF RNA POLYMERASE I 5408
REGULATION OF CARBOHYDRATE METABOLISM IN ESCHERICHIA COLI 5522
SITES IN HISTONES PHOSPHORYLATED BY PROTEIN KINASES 6287
PHOSPHORYLASE KINASE AUTOPHOSPHORYLATION AND SUBSTRATES 7480

PROTEIN, PROTEIN ASSOCIATION
SEE ALSO PROTEIN, PROTEIN INTERACTION
SEE ALSO PROTEIN, SUBUNITS
STUDIES ON HUMAN SERUM HIGH DENSITY LIPOPROTEINS 1131
SELF-ASSOCIATION OF CYTOCHROME B5 IN AQUEOUS SOLUTION 2113

PROTEIN, PROTEIN COOPERATIVITY
MAPPING OF THE GENE 32-PROTEIN-NUCLEIC ACID BINDING SITE 7229

PROTEIN, PROTEIN INTERACTION
SEE ALSO PROTEIN, SUBUNITS
HALF-SITE REACTIVITY IN PROTEASE-INHIBITOR COMPLEXES 754
ENERGETICS OF PROTEASE-BLACK-EYED PEA INHIBITOR INTERACTIONS 763
ENERGY TRANSFER STUDIES ON PROTEASE INHIBITOR COMPLEXES 769
CARDIAC TROPONIN 866
A HEPATIC BINDING PROTEIN FOR ASIALOGLYCOPROTEINS 1296
THE RNASE-S-PEPTIDE ANALOGS RECOGNITION OF S-PROTEIN 1333
DISSOCIATED TRYPTOPHANASE IS INACTIVE 2820
PROTEIN BINDING TO GALACTOSYLTRANSFERASE 3653
HORMONE BINDING EFFECTS ON NEUROPHYSIN QUATERNARY STRUCTURE 3965
HUMAN PLASMINOGEN-STREPTOKINASE ACTIVATOR 6495
PARAMETERS FOR GENE 32-PROTEIN BINDING TO NUCLEIC ACIDS 7240
SQUID BRAIN MYOSIN 7682

PROTEIN, REASSOCIATION
SEE ALSO PROTEIN, SUBUNITS

PROTEIN, RECEPTOR
SEE ALSO BINDING PROTEINS
SEE ALSO RECEPTORS

PROTEIN, REFOLDING
SEE ALSO PROTEIN, CONFORMATION

PROTEIN, RENATURATION
EFFECT OF EF-TU INHIBITORS ON Q-BETA REPLICASE RENATURATION 2749

PROTEIN, RIBOSOMAL
SEE ALSO RIBOSOMES
RECONSTITUTION OF 50 S RIBOSOMES FROM PURIFIED COMPONENTS 209
PHOSPHORYLATION OF RIBOSOMAL PROTEIN 1500
THE RIBOSOMAL PROTEINS OF SACCHAROMYCES CEREVISIAE 1799
FRACTIONATION OF RIBOSOMAL PROTEINS 1808
BINDING OF HOST FACTOR AND S1 TO Q-BETA AND R17 RNA 1902
CORRECTION TO COHLBERG AND NOMURA VOL.251 (1976) P. 209 2540
ANTIBODIES AND Q-BETA REPLICASE 2744
STOICHIOMETRY OF HELA NUCLEOLAR RIBOSOMAL PROTEINS 2867
EXCHANGE AND STABILITY OF HELA RIBOSOMAL PROTEINS IN VIVO 2876
PURIFICATION OF EUKARYOTIC RIBOSOMAL PROTEINS 4666
SYNTHESIS OF RIBOSOMAL PROTEINS L7L12 5516
CROSS-LINKING OF IF2 TO RIBOSOMAL PPOTEINS L7/L12 7779
PURIFICATION OF EUKARYOTIC RIBOSOMAL PROTEINS 7940

PROTEIN, SELF-ASSOCIATION
SELF-ASSOCIATION OF RHESUS MONKEY APOLIPOPROTEIN A-I 7437
AGGREGATION OF DEOXYHEMOGLOBINS AT LOW CONCENTRATIONS 7657

PROTEIN, STRUCTURE
SEE ALSO ELECTRON SPIN RESONANCE
SEE ALSO PROTEIN, CONFORMATION
SEE ALSO SPECIFIC PROTEIN
SEE ALSO X-RAY
DOCUMENTATION OF PROTEIN SEQUENCES 11
NEUROTOXIC PHOSPHOLIPASE A SEQUENCE 7343

PROTEIN, SUBUNITS
SEE ALSO HEMOGLOBIN
SEE ALSO HYBRID PROTEINS
CYTOCHROME OXIDASE WITH FOUR POLYPEPTIDE SUBUNITS 276
DEAZAFAD-GLYOXALATE CARBOLIGASE 329
NERVE GROWTH FACTOR IN DILUTE SOLUTION 459
SUBUNIT INTERACTIONS OF BLACK-EYED PEA PROTEIN INHIBITORS 747
ENERGY TRANSFER STUDIES ON PROTEASE INHIBITOR COMPLEXES 769
CARBAMYL PHOSPHATE SYNTHETASE FROM RAT LIVER MITOCHONDRIA 950
SUBUNIT STRUCTURE OF MOUSE PLASMACYTOMA RNA POLYMERASE III 1044
A MODIFICATION WHICH AFFECTS THE STABILITY OF HHM-EGF 1188
DEHYDROGENASE INHIBITION BY PALMITOYL COENZYME A 1486
LARGE SCALE PURIFICATION OF YEAST RNA POLYMERASE I 1664
PROPERTIES OF SUCCINYL CO A 3-KETOACID CO A TRANSFERASE 1788
STRUCTURAL STUDIES ON YEAST RNA POLYMERASES 1712
SUBUNIT STRUCTURE OF AMP-DEAMINASE 1847
ROOT EFFECT HEMOGLOBIN OF A MARINE FISH 1871
NITRATE REDUCTASE FROM ESCHERICHIA COLI 2207
LOCATION OF SURSTRATE SITE OF SUCCINATE DEHYDROGENASE 2369
CHARACTERIZATION OF K9 ALKALINE PHOSPHATASE 2628
ALPHA-AMANITIN-RESISTANT RNA POLYMERASE II 2729
ASSOCIATION OF EF-TU.TS IN Q-BETA REPLICASE 2748
EFFECT OF EF-TU INHIBITORS ON Q-BETA REPLICASE RENATURATION 2749
INTERACTIONS BETWEEN TRYPTOPHANASE PROTOMERS 2814
DISSOCIATED TRYPTOPHANASE IS INACTIVE 2820
SUBUNIT STRUCTURE AND CHEMICAL COMPOSITION OF CITRATE LYASE 2911
KINETICS OF GLUCOSE-6-PHOSPHATE DEHYDROGENASE VARIANTS 2993
LAC REPRESSOR QUATERNARY STRUCTURE 3359
SUBUNIT INTERACTIONS OF PHOSPHO- + DEPHOSPHO- PROTEIN KINASE 3375
PROPERTIES OF KETOPANTOATE HYDROXYMETHYLTRANSFERASE 3786
SUBUNIT STRUCTURE OF BOMBYX MORI RNA POLYMERASE III 3794
TRYPTOPHAN SYNTHETASE OF PROTEUS MIRABILIS 3875
HORMONE BINDING EFFECTS ON NEUROPHYSIN QUATERNARY STRUCTURE 3965
SUBUNIT COMPOSITION OF THE GLOMERULAR BASEMENT MEMBRANE 4062
THE PLASMA MEMBRANE OF HUMAN PLACENTA 4139
O2 BINDING + SUBUNIT DISSOCIATION OF TADPOLE HEMOGLOBINS 4254
RNA POLYMERASE FROM VESICULAR STOMATITIS VIRUS 4387
SUBUNIT COMPOSITION OF EMBRYONIC CHICK LENS S-CRYSTALLIN 4416
HYBRIDIZATION OF CONCANAVALIN A SUBUNITS 4622
NEUROSPORA CRASSA GLUTAMINE SYNTHETASE 4787
STRUCTURAL RELEVANCE OF BETA6GLU-VAL MUTATION IN HEMOGLOBIN 4968
A MAMMALIAN PROTEIN WITH MULTIPLE CATALYTIC ACTIVITIES 5184
STEROID RECEPTOR SUBUNIT EFFECTS ON CHROMATIN TRANSCRIPTION 5178
STRUCTURE OF ATP CITRATE LYASE 5242
SUBUNIT STRUCTURE OF CHICKEN LIVER FATTY ACID SYNTHETASE 5352
SUBUNIT DISSOCIATION IN HEMOGLOBIN AND THE BOHR EFFECT 5537
SUBUNIT STRUCTURE OF WISTARIA FLORIBUNDA LECTIN 5686
SUBUNIT COMPOSITION OF ISOLATED HAPTOGLOBIN 2-1 POLYMERS 5845
BINDING OF CARBAMYL PHOSPHATE TO ASPARTATE TRANSCARBAMYLASE 5966
REDUCTION OF DISULFIDES IN GLYCOPROTEIN HORMONES 6388
REDUCTION AND OXIDATION OF DISULFIDES OF LH ALPHA 6392
CHEMICAL CROSS-LINKING OF CHLOROPLAST COUPLING FACTOR 1 6953
IMMUNOCHEMISTRY OF THE SUBUNITS OF TRANSCARBOXYLASE 7021
RELATIVE OXYGEN BINDING TO SUBUNITS OF HEMOGLOBIN A BY NMR 7114
TETRAIODOFLUORESCEIN WITH YEAST HEXOKINASE 7157
SELF-PHOSPHORYLATION OF PROTEIN KINASE 7526
LIMULUS HEMOCYANINS 7644
A MULTIFUNCTIONAL ENZYME IN TRYPTOPHAN SYNTHESIS IN EUGLENA 7774
FORMATION OF DEOXYHEMOGLOBIN 7871
E. COLI ADP-GLUCOSE PYROPHOSPHORYLASE 7880

PROTEIN, SULFHYDRYLS
SEE ALSO SULFHYDRYLS (IN PROTEINS)

PROTEIN, SURVIVAL IN CIRCULATION
AGLYCOSYLANTIBODY SURVIVAL IN THE CIRCULATION 1074

PROTEIN, SYNTHESIS
MALIC ENZYME SYNTHESIS IN CULTURE 3627
REGULATION OF 6-PHOSPHOGLUCONATE DEHYDROGENASE SYNTHESIS 3539

PROTEIN, SYNTHESIS (CHEMICAL)
PROPERTIES OF SYNTHETIC PARATHYROID HORMONE ANALOGUES 159
THE RNASE-S-PEPTIDE ANALOGS RECOGNITION OF S-PROTEIN 1333
RIBONUCLEASE QUANTITATIVE AFFINITY CHROMATOGRAPHY 2844
SYNTHESIS OF PEPTIDES FROM SICKLE HEMOGLOBIN BETA CHAIN 6426

PROTEIN, SYNTHESIS IN VITRO (ANIMAL)
SEE ALSO PROTEIN, RIBOSOMAL
SEE ALSO PROTEIN, SYNTHESIS (MITOCHONDRIAL)
FLUORIDE AND INITIATION COMPLEXES OF PROTEIN SYNTHESIS 292
PROTEINS OF FRIEND LEUKEMIA CELLS 555
BIOSYNTHESIS OF HUMAN PLACENTAL LACTOGEN MRNA 820
ASSAY OF TROUT TESTIS PROTAMINE MRNA 1446
PURIFICATION AND PROPERTIES OF TROUT TESTIS PROTAMINE MRNA 1455
CELL-FREE SYNTHESIS OF HUMAN PLACENTAL LACTOGEN 1723
PURIFICATION OF EF-1-BETA, NEW ELONGATION FACTOR FROM LIVER 1843
CHARACTERIZATION OF EIF-3 1926
BIOSYNTHESIS OF THE ATPASE OF SARCOPLASMIC RETICULUM 2038
FUNCTION OF PROCOLLAGEN COOH-TERMINAL EXTENSION 2670
SYNTHESIS OF A LARGE TRANSLATION PRODUCT OF PROLACTIN MRNA 2801
M-RNA-DIRECTED CELL-FREE SYNTHESIS OF A PROLACTIN PRECURSOR 2842
SYNTHESIS OF HPL AND HCG BY PLACENTAL POLYRIBOSOMES AND MRNA 2945
SYNTHESIS AND DEGRADATION OF FOLATE REDUCTASE 3863
OVERPRODUCTION OF DIHYDROFOLATE REDUCTASE 3875
ESTROGEN INDUCTION OF VITELLOGENIN MESSENGER RNA 3105
DISULFIDE LINKING OF PRO-ALPHA CHAINS 3530
EFFECT OF HYPOPHYSECTOMY ON ALBUMIN SYNTHESIS 3768
PRE-PROPARATHYROID HORMONE BIOSYNTHESIS 3893
STEPS IN INHIBITION OF PROTEIN SYNTHESIS BY ABRIN AND RICIN 3985
ABNORMAL HEMOGLOBIN SYNTHESIS AND SUBUNIT EXCHANGE 4346
IN VITRO SYNTHESIS OF ALDOLASE TETRAMERS 4355
VALINE POOL AND PROTEIN SYNTHESIS AND DEGRADATION 4458
FREE RIBOSOMES IN RESTING LYMPHOCYTES 4891
SYNTHESIS IN VITRO OF INTRINSIC MEMBRANE PROTEINS 5054
PROGESTERONE RECEPTOR REGULATION OF CHROMATIN TRANSCRIPTION 5166
PURIFICATION OF INITIATION FACTORS M20-ALPHA + M20-BETA 5551
SPECIFICITY IN THE INITIATION OF GLOBIN MRNA TRANSLATION 5718
PROTEIN SYNTHESIS IN RABBIT RETICULOCYTES INITIATION 6379

INTERACTIONS OF ADPRIB-EF-2 WITH RIBOSOMES 6544
REGULATION OF FOLATE REDUCTASE SYNTHESIS IN SARCOMA 180 CELL 6987
TRIPLE HELIX MAY FORM BETWEEN POLYSOME-BOUND COLLAGEN CHAINS 7137
ISOLATION OF RAT LIVER ALBUMIN MESSENGER RNA 7461
CYTOPLASMIC NONPOLYSOMAL MYOSIN HEAVY CHAIN MRNP 7600
INITIATION FACTOR IF-E2 FROM RABBIT RETICULOCYTES 7675
PURIFICATION OF EUKARYOTIC RIBOSOMAL PROTEINS 7940

PROTEIN, SYNTHESIS IN VITRO (BACTERIAL)
SPECIFIC BINDING OF IF-2 (E. COLI) TO FMET-TRNA 137
RECONSTITUTION OF 50 S RIBOSOMES FROM PURIFIED COMPONENTS 209
STRINGENT CONTROL OF ELONGATION FACTORS 898
SELECTIVE MODIFICATION OF A CYSTEINE IN ELONGATION FACTOR G 930
STOICHIOMETRY OF POLYPEPTIDE CHAIN ELONGATION 1718
ELONGATION FACTOR G BINDING TO THE RIBOSOME 1795
MODE OF ACTION OF BOTTROMYCIN A2 2299
TRANSLATION SPECIFICITY OF BACTERIAL RIBOSOMES AND MRNA 2499
CORRECTION TO COHLBERG AND NOMURA VOL.251 (1976) P. 209 2540
ASSOCIATION OF EF-TU.TS IN Q-BETA REPLICASE 2740
ANTIBODIES AND Q-BETA REPLICASE 2744
INTERACTION OF BACTERIAL IF-2 WITH INITIATOR TRNA 3330
TRANSLATIONAL, AUTOGENOUS CONTROL OF GENE 32 EXPRESSION 7263

PROTEIN, SYNTHESIS IN VITRO (MITOCHONDRIAL)
MITOCHONDRIAL POLYSOMES 108

PROTEIN, SYNTHESIS IN VITRO (PLANT)
PURIFICATION AND PROPERTIES OF TROUT TESTIS PROTAMINE MRNA 1455
CELL-FREE SYNTHESIS OF HUMAN PLACENTAL LACTOGEN 1723
METHYLATED GUANOSINE NUCLEOTIDE INHIBITS HELA TRANSLATION 5657

PROTEIN, SYNTHESIS IN VITRO (YEAST)
MITOCHONDRIAL POLYSOMES 108
TRANSLATION OF YEAST CYTOCHROME C MRNA 6320

PROTEIN, SYNTHESIS IN VIVO (ALGAE)
CHLORAL HYDRATE CAUSES BREAKDOWN OF POLYSOMES IN VIVO 2637

PROTEIN, SYNTHESIS IN VIVO (ANIMAL)
SEE ALSO PROTEIN, TURNOVER
SYNTHESIS OF RAT LIVER FATTY ACID SYNTHETASE 720
AMINOLEVULINIC ACID SYNTHASE 1347
AMINO ACID COMPARTMENTATION AND HEPATIC PROTEIN TURNOVER 1375
DE NOVO PROTEIN SYNTHESIS OF CYTOCHROME P 450 1817
BIOCHEMICAL AND ULTRASTRUCTURE CHANGES IN B12 DEFICIENCY 2147
BIOCHEMICAL AND ULTRASTRUCTURE CHANGES IN B12 DEFICIENCY 2155
STEROID REGULATION OF ENZYME SYNTHESIS IN RAT LIVER IN VIVO 2571
PROTEIN DEGRADATION IN REGENERATING LIVER 2891
SYNTHESIS AND RELEASE OF PROCOLLAGENASE BY FIBROBLASTS 3162
EFFECT OF HYPOPHYSECTOMY ON ALBUMIN SYNTHESIS 3768
PRE-PROPARATHYROID HORMONE BIOSYNTHESIS 3893
EFFECT OF COBALT ON SYNTHESIS OF HEME AND CYTOCHROME P 450 4421
ATTACHMENT OF CARBOHYDRATE TO OVALBUMIN NASCENT CHAINS 5490
SYNTHESIS OF RIBOSOMAL PROTEINS L7L12 5516
PROPERTIES OF PHENYLALANINE HYDROXYLASE OF H4-II-E-C3 CELLS 6901
GLUCAGON EFFECT ON HEPATIC PROTEIN SYNTHESIS AND DEGRADATION 7785
EFFECT OF T3 ON (NA+, K+)ATPASE SYNTHESIS 7834

PROTEIN, SYNTHESIS IN VIVO (BACTERIAL)
POLYPEPTIDE SYNTHESIS DURING INDUCTION OF BIOLUMINESCENCE 2541
POST-TRANSCRIPTIONAL CONTROL OF BETA-GALACTOSIDASE SYNTHESIS 2654
PEPTIDYL TRANSFER RNA DISSOCIATES FROM RIBOSOMES OF E. COLI 3392
CORRECTION TO MICHALISZYN + MEIGHEN VOL. 251 (1976) P. 2541 4479

PROTEIN, SYNTHESIS IN VIVO (MITOCHONDRIAL)
YEAST CYTOCHROME C1 1997
MITOCHONDRIAL INNER MEMBRANE SYNTHESIS IN CULTURED OOCYTES 6097

PROTEIN, SYNTHESIS IN VIVO (OOCYTE)
MITOCHONDRIAL INNER MEMBRANE SYNTHESIS IN CULTURED OOCYTES 6097

PROTEIN, SYNTHESIS IN VIVO (PLANT)
SITES OF SYNTHESIS OF MAJOR PROTEINS IN PLANT LEAF TISSUE 2848
SPECIFICITY OF PROTEIN TURNOVER IN TOMATO LEAVES 7004

PROTEIN, SYNTHESIS IN VIVO (YEAST)
THE RIBOSOMAL PROTEINS OF SACCHAROMYCES CEREVISIAE 1799
YEAST CYTOCHROME C1 1997
CYCLOHEXIMIDE INHIBITION OF PROTEIN SYNTHESIS INITIATION 7278

PROTEIN, TRANSITION
A CALCIUM-DEPENDENT PROTHROMBIN TRANSITION 5648

PROTEIN, TRANSPORT
SEE ALSO MEMBRANES
SEE ALSO TRANSPORT

PROTEIN, TURNOVER
SEE ALSO PROTEIN, DEGRADATION
SEE ALSO PROTEIN, SYNTHESIS
SYNTHESIS OF RAT LIVER FATTY ACID SYNTHETASE 720
TURNOVER OF THE PLASMA MEMBRANE PROTEINS OF HTC CELLS 872
TURNOVER OF ORNITHINE AMINOTRANSFERASE 1029
GLYCOGEN PHOSPHORYLASE IN DICTYOSTELIUM DISCOIDEUM.I. 1253
GLYCOGEN PHOSPHORYLASE ACCUMULATION IN D. DISCOIDEUM. II. 1258
PHOSPHOFRUCTOKINASE STABILIZING FACTOR FROM LIVER 2323
EXCHANGE AND STABILITY OF HELA RIBOSOMAL PROTEINS IN VIVO 2876
PROTEIN DEGRADATION IN REGENERATING LIVER 2891
CHONDROITIN SULFATE GLYCOSYLTRANSFERASES IN CHONDROCYTES 3346
PEPTIDYL TRANSFER RNA DISSOCIATES FROM RIBOSOMES OF E. COLI 3392
PROTEIN DEGRADATION IN HUMAN FIBROBLASTS 3521
EFFECT OF GLYCOSYLATION ON PLASMA HALF-LIFE OF RIBONUCLEASE 6616
SPECIFICITY OF PROTEIN TURNOVER IN TOMATO LEAVES 7004
SPECIFIC SPORE PROTEASE FROM B. MEGATERIUM 7853

PROTEINASE INHIBITOR
ALPHA-2-PLASMIN INHIBITOR IN HUMAN PLASMA 5956
SPECIFICITY OF PROTEIN TURNOVER IN TOMATO LEAVES 7004

PROTEINASES
SEE ALSO PROTEASES
SEE ALSO TRYPSIN
PRIMARY STRUCTURE OF STREPTOCOCCAL PROTEINASE. I 1941
PRIMARY STRUCTURE OF STREPTOCOCCAL PROTEINASE. II 1948
THE PRIMARY STRUCTURE OF STREPTOCOCCAL PROTEINASE. III 1955
YEAST CHITIN SYNTHETASE ACTIVATING FACTOR 3367

PROTEOGLYCANS
PROTEOGLYCAN-COLLAGEN INTERACTIONS 895
CHONDROITIN SULFATE GLYCOSYLTRANSFERASES IN CHONDROCYTES 3346
PROTEOGLYCANS FROM CHICK LIMB BUD CHONDROCYTES 3511
STIMULATION OF PROTEOGLYCAN SYNTHESIS BY SERUM FACTORS 3763
PROTEOGLYCAN SUBUNIT CORE PROTEIN 6439

PROTEOLIPIDS
PURIFICATION OF THE CARBODIIMIDE-REACTIVE PROTEIN 6630

PROTEOLIPOSOME RECONSTITUTION
BIOLOGICAL ELECTRIC GENERATORS. CHLOROPHYLL COMPLEXES 7066
BIOLOGICAL ELECTRIC GENERATORS. CYTOCHROME OXIDASE 7072
BIOLOGICAL ELECTRIC GENERATORS. H-PLUS-ATPASE 7077

PROTEOLIPOSOMES
BIOLOGICAL ELECTRIC GENERATORS. BACTERIORHODOPSIN 7059

PROTEOLYSIS
SEE ALSO PROTEASES
SEE ALSO PROTEIN, DEGRADATION
LOCATION OF MITOCHONDRIAL PROTEINS BY LABELING REAGENTS 1354
YEAST CYTOCHROME C1 1991
YEAST CYTOCHROME C1 1997
NUCLEIC ACID HELIX-UNWINDING PROTEINS FROM CALF THYMUS 2124
CHARACTERIZATION OF PORCINE NEUROPHYSIN III 2735
LIMITED PROTEOLYTIC DIGESTION OF LAC REPRESSOR 3386
PRODUCTS OF LIMITED PROTEOLYSIS OF DNA LIGASE 3432
PROTEIN DEGRADATION IN HUMAN FIBROBLASTS 3521
EFFECTS OF TRYPSIN ON GLYCOGEN SYNTHETASE 4359
RAT HIGH DENSITY LIPOPROTEIN CATABOLISM 4914
STRUCTURE OF ATP CITRATE LYASE 5242
COLLAGEN DEGRADATION BY EXTRACTS OF RAT LIVER LYSOSOMES 5280
TRYPSIN-SUSCEPTIBLE PEPTIDE BONDS IN ENTEROTOXIN C 5580
AMINO ACID SEQUENCE OF CYTOCHROME B5 6767
INTERCONVERTIBLE FORMS OF E. COLI DIHYDROFOLATE REDUCTASE 7011
SPECIFIC SPORE PROTEASE FROM B. MEGATERIUM 7853
PHYSICAL PROPERTIES OF TWO FORMS OF GLUTAMYLTRANSPEPTIDASE 7863

PROTEUS MIRABILIS
TRYPTOPHAN SYNTHETASE OF PROTEUS MIRABILIS 3875

PROTEUS VULGARIS
CRYSTALLINE METHYLGLYOXAL SYNTHETASE FROM PROTEUS VULGARIS 364

PROTHROMBIN
SEE ALSO CLOTTING, BLOOD
VITAMIN K-DEPENDENT CARBOXYLASE 2770
LANTHANIDE IONS AND METAL-DEPENDENT PROTHROMBIN ACTIVATION 3235
VITAMIN K-DEPENDENT CARBOXYLATION 3269
PLASMA LIPOPROTEINS AND PROTHROMBIN ACTIVATION 5233
A CALCIUM-DEPENDENT PROTHROMBIN TRANSITION 5648
PEPTIDE SUBSTRATE FOR VITAMIN K DEPENDENT CARBOXYLASE 5827
SOLUBILIZATION OF VITAMIN K DEPENDENT CARBOXYLASE 6238
MN-PROTHROMBIN INTERACTIONS 6294
ROLE OF GAMMA-CARBOXYGLUTAMIC ACID 6886

PROTON EJECTION
MITOCHONDRIAL H+/SITE RATIO 7442

PROTON EXCHANGE
SEE ALSO DEUTERIUM ISOTOPE EFFECTS
SEE ALSO HYDROGEN EXCHANGE
STEREOSPECIFICITY IN SPHINGANINE 1-PHOSPHATE LYASE REACTION 4448

PROTON GRADIENT
SEE ALSO CHLOROPLASTS
PROTON-COUPLED CALCIUM TRANSPORT 962
PHOTOPHOSPHORYLATION AND INTERNAL H-PLUS CONCENTRATION 1618

PROTON MAGNETIC RELAXATION
CONFORMATION OF ATP ON PYRUVATE KINASE 2412

PROTON MAGNETIC RESONANCE
SEE ALSO NUCLEAR MAGNETIC RESONANCE
PMR STUDIES OF THE GLUTAMATE-ALANINE TRANSAMINASE REACTION 1088
INTACT MONOMERIC COLLAGEN AND STRUCUTRE OF NONHELICAL ENDS 6462

PROTON PUMP
SEE ALSO TRANSPORT, PROTON
PROTON TRANSLOCATING ATPASE 2453
A NONELECTROGENIC H+ PUMP IN HOG GASTRIC MEMBRANE 7690

PROTON RELAXATION RATES
SEE ALSO NUCLEAR MAGNETIC RESONANCE
CONFORMATIONS OF PYRUVATE KINASE BY MONOVALENT CATIONS 73
THE MNADP COMPLEX WITH MYOSIN SUBFRAGMENT 1 1975
STRUCTURE OF CREATINE KINASE-SUBSTRATE COMPLEXES 2777
KINETIC EPR AND NMR STUDIES OF MALIC ENZYME 6574

PROTON TRANSLOCATION
PROTON TRANSLOCATING ATPASE 2453
PURIFICATION OF THE CARBODIIMIDE-REACTIVE PROTEIN 6630

PROTON TRANSPORT
SEE ALSO TRANSPORT, PROTON

PROTOPORPHYRINOGEN OXIDASE
PROTOPORPHYRINOGEN OXIDASE ACTIVITY IN LIVER MITOCHONDRIA 3730

PROTOPORPHYRINS
PROTOPORPHYRINOGEN OXIDASE ACTIVITY IN LIVER MITOCHONDRIA 3730

PROTOZOA
SEE ALSO OCHROMONAS
GLYCOPROTEIN OF EIMERIA TENELLA OOCYSTS 302
SPECIFICITY IN THE INITIATION OF GLOBIN MRNA TRANSLATION 5718
UNSATURATED FATTY ACID SYNTHESIS IN TETRAHYMENA 7588

PSEUDOMONAS FLUORESCENS
TRANSLATION SPECIFICITY OF BACTERIAL RIBOSOMES AND MRNA 2499
FLAVIN-OXYGEN DERIVATIVES IN FLAVOENZYME HYDROXYLATION 2550

PSEUDOMONAS MA
NADH ACTIVATED PHOSPHOENOLPYRUVATE CARBOXYLASE 2754

PSEUDOMONAS OVALIS
PRELIMINARY CRYSTAL DATA OF IRON-SUPEROXIDE DISMUTASE 4792

PSEUDOMONAS PUTIDA
ANTHRANILATE SYNTHETASE 941
OXYGENATED CYTOCHROME P 450 1116

PSEUDOMONAS 7A
ANTITUMOR GLUTAMINASE-ASPARAGINASE FROM PSEUDOMONAS 7A 2119
PSEUDOMONAS 7A GLUTAMINASE-ASPARAGINASE 5375

PSEUDOPREGNANCY
GONADOTROPIN INDUCED DESENSITIZATION OF ADENYLATE CYCLASE 7729

PSEUDOURIDINE
BIOSYNTHESIS OF PSEUDOURIDINE IN TRNA BY EUKARYOTIC ENZYMES 4570

PSICOSE 6-PHOSPHATE
THE FRUCTOSE 6-PHOSPHATE SITE OF PHOSPHOFRUCTOKINASE 2983

PTERIDINES
CHARACTERISTICS OF GTP CYCLOHYDROLASE I 5087

PTERINS
SEE ALSO PHENYLALANINE HYDROXYLASE
THE ENZYMATIC SYNTHESIS OF BIOPTERIN 6585

PTEROYLGLUTAMATE
SEE ALSO FOLATE
SEE ALSO TETRAHYDROFOLATE

PULSE RADIOLYSIS
HEME REDUCTION IN HUMAN METHEMOGLOBIN 2877
NICOTINAMIDE ADENINE DINUCLEOTIDE OXIDATION BY SUPEROXIDE 3841
1-ELECTRON REDOX REACTIONS BY FAST PULSE CYT-C/FERRICYANIDE 4336

PUMMERERS KETONE
A PH-DEPENDENT STOICHIOMETRY WITH HORSERADISH PEROXIDASE 6043
A PH-DEPENDENT STOICHIOMETRY WITH HORSERADISH PEROXIDASE 6043

PURINE NUCLEOSIDE PHOSPHORYLASE
GROUP TRANSLOCATION OF INOSINE RIBOSE MOIETY BY SV-3T3 CELLS 344
LIVER PURINE NUCLEOSIDE PHOSPHORYLASE 407

PURINE NUCLEOSIDES
INHIBITION OF PP-RIBOSE-P-SYNTHESIS BY PURINE NUCLEOSIDES 5839

PURINE NUCLEOTIDE CYCLE
AMMONIA PRODUCTION IN BRAIN 485

PURINE NUCLEOTIDE PYROPHOSPHORYLASE
BIOSYNTHESIS OF RIBOFLAVIN 3623

PURINES
SEE ALSO ADENINE
SEE ALSO GUANINE
SEE ALSO HYPOXANTHINE
LIGAND-INDUCED ALTERATIONS IN AMIDOPHOSPHORIBOSYLTRANSFERASE 2234
REGULATION OF DE NOVO PURINE SYNTHESIS IN HUMAN LYMPHOBLASTS 7348

PUROMYCIN
SEE ALSO POLYSOMES
SEE ALSO PROTEIN, SYNTHESIS
SEE ALSO RIBOSOMES

FUNCTION OF PROCOLLAGEN COOH-TERMINAL EXTENSION 2670
PROTEIN KINASES DURING THE CELL CYCLE 3313
FORMATION OF LIPID-SACCHARIDE INTERMEDIATE BY THYROID SLICES 6480
PUTIDAREDOXIN
OXYGENATED CYTOCHROME P 450 1116
PUTRESCINE
SEE ALSO DIAMINOBUTANE
SEE ALSO POLYAMINES
PYRENE
KINETICS OF PYRENE EXCHANGE BETWEEN LIPOPROTEINS 7952
PYRIDINE INHIBITORS
EFFECT OF PYRIDINE DERIVATIVES ON GLUCOSE TRANSPORT 5141
PYRIDINE NUCLEOTIDES
SEE ALSO NAD
SEE ALSO NADP
PYRIDOXAL
VITAMIN B6 TRANSPORT IN YEAST 1042
TRANSPORT OF VITAMIN B6 IN S. TYPHIMURIUM 1052
PYRIDOXAL KINASE
TRANSPORT OF VITAMIN B6 IN S. TYPHIMURIUM 1052
PYRIDOXAL PHOSPHATE
BROMOPYRUVATE INACTIVATION OF GLUTAMATE DECARBOXYLASE 229
INHIBITION OF GLUCOSE-6-PHOSPHATASE BY PYRIDOXAL PHOSPHATE 1035
PMR STUDIES OF THE GLUTAMATE-ALANINE TRANSAMINASE REACTION 1088
REACTION MECHANISM FOR O-ACETYLSERINE SULFHYDRYLASE 2023
13C NMR SPECTROSCOPY 2248
INTERACTIONS BETWEEN TRYPTOPHANASE PROTOMERS 2814
DISSOCIATED TRYPTOPHANASE IS INACTIVE 2820
IRREVERSIBLE INHIBITION OF ASPARTATE AMINOTRANSFERASE 3346
ORGANIZATION OF MEMBRANE PROTEINS IN INTACT MYELIN SHEATH 4729
REACTIVITY OF PHOSPHOPYRIDOXAL IN CYSTATHIONASE 5267
STEREOCHEMISTRY OF CYSTEINE FORMATION 5478
THE PK OF LYS-258 IN ASPARTATE TRANSAMINASE 5663
ESSENTIAL ARGININYL RESIDUES OF D-SERINE DEHYDRATASE 6179
INACTIVATION OF CYTO MALATE DEHYDROGENASE BY PYRIDOXAL-5-P 6304
C13 NMR STUDY-NONENZYMATIC REACTIONS OF PLP WITH AMINO ACIDS 7661
PYRIDOXAL 5-PHOSPHATE, 2-NOR-2-FORMYL
REACTION OF HAPTOGLOBIN WITH CROSSLINKED HEMOGLOBIN 465
PYRIDOXAMINE
VITAMIN B6 TRANSPORT IN YEAST 1042
TRANSPORT OF VITAMIN B6 IN S. TYPHIMURIUM 1052
PYRIDOXAMINE PHOSPHATE
AMINOLEVULINIC ACID SYNTHASE OF LIVER 1340
MAGNETIC RESONANCE PROBE (19-F) IN ASPARTATE TRANSAMINASE 1853
C13 NMR STUDY-NONENZYMATIC REACTIONS OF PLP WITH AMINO ACIDS 7661
PYRIDOXINE
VITAMIN B6 TRANSPORT IN YEAST 1042
TRANSPORT OF VITAMIN B6 IN S. TYPHIMURIUM 1052
PYRIMETHAMINE
INTERCONVERTIBLE FORMS OF E. COLI DIHYDROFOLATE REDUCTASE 7011
PYRIMIDINE
CONTROL OF PYRIMIDINE SYNTHESIS BY GUANINE AND GUANOSINE 1427
PYRIMIDINE BIOSYNTHESIS
PURIFICATION OF COMPLEX U UMP SYNTHESIS FROM OROTATE OR OMP 5589
PYRIMIDINE DIMERS
5-PRIME-3-PRIME EXONUCLEASES OF BACTERIOPHAGE T4 2613
HUMAN CORREXONUCLEASE A REPAIR ENZYME FROM PLACENTA 4579
PYRIMIDINE NUCLEOSIDE MONOPHOSPHATE KINASE
HUMAN ERYTHROCYTE PYRIMIDINE NUCLEOSIDE MONOPHOSPHATE KINASE 4179
PYROGLUTAMYLPEPTIDASE
TRH METABOLISM BY HAMSTER HYPOTHALAMUS 3229
PYROPHOSPHATASE
INCREASED CELL ECTO-PYROPHOSPHATASE UPON SIALIC ACID RELEASE 493
CR(III) AND INORGANIC PYROPHOSPHATASE 2611
PYROPHOSPHATE
6-PHOSPHOFRUCTOKINASE (PYROPHOSPHATE) 2958
ACTIVATION AND INHIBITION OF ADENYLATE CYCLASE BY FLUORIDE 6205
PYROPHOSPHOROLYSIS
FIDELITY OF DNA REPLICATION 975
PYROPHOSPHORYL ENZYME
A NONCLASSICAL TRI UNI UNI PING PONG MECHANISM 7928
PYRROLIDONE CARBOXYLATE
SEE ALSO PYROGLUTAMINASE
PYRUVATE
INTERMOLECULR TRITIUM TRANSFER IN TRANSCARBOXYLASE REACTION 902
C13 NMR STUDY-NONENZYMATIC REACTIONS OF PLP WITH AMINO ACIDS 7661
PYRUVATE CARBOXYLASE
INHIBITION OF PYRUVATE CARBOXYLASE BY CHROMIUM NUCLEOTIDES 320
PYRUVATE DEHYDROGENASE
REGULATION OF PYRUVATE DEHYDROGENASE 1364
ANALOGS OF THIAMIN PYROPHOSPHATE TRANSITION STATES 2863
CO A/AC-CO A,NAD/NADH RATIOS + HEART PYRUVATE DEHYDROGENASE 5483
PYRUVATE KINASE
OXALACETATE DECARBOXYLASE AND PYRUVATE KINASE ARE THE SAME 61
MECHANISM OF OXALACETATE DECARBOXYLASE 69
CONFORMATIONS OF PYRUVATE KINASE BY MONOVALENT CATIONS 73
PREPARATION OF YEAST (S. CEREVISIAE) PYRUVATE KINASE 124
AMMONIA PRODUCTION IN BRAIN 485
CONFORMATION OF ATP ON PYRUVATE KINASE 2412
NMR STUDIES OF INTERACTION OF CR-ATP WITH PYRUVATE KINASE 2421
SUBSTRATE CONFORMATIONS ON PYRUVATE KINASE 2431
REGULATION OF HEPATIC PYRUVATE KINASE 3756
HYSTERETIC KINETICS OF ERYTHROCYTE PYRUVATE KINASE 5608
GLUCOSE AND LACTATE FORMATION FROM PYRUVATE 6189
HORMONAL CONTROL OF DIHYDROXYACETONE AND GLYCEROL METABOLISM 7841
PYRUVATE, PHOSPHATE DIKINASE
A NONCLASSICAL TRI UNI UNI PING PONG MECHANISM 7928

Q

Q-BETA
SEE ALSO BACTERIOPHAGE Q-BETA
Q-BETA REPLICASE
BINDING OF HOST FACTOR AND S1 TO Q-BETA AND R17 RNA 1902
ASSOCIATION OF EF-TU.TS IN Q-BETA REPLICASE 2740
ANTIBODIES AND Q-BETA REPLICASE 2744
EFFECT OF EF-TU INHIBITORS ON Q-BETA REPLICASE RENATURATION 2749

R

RADIOIMMUNOASSAY
PREPARATION AND ASSAY OF ANTIBODIES TO HEMOGLOBIN S FRAGMENT 1283
PROPERTIES OF ANTIBODIES TO A HEMOGLOBIN S FRAGMENT 1290
RADIOIMMUNOASSAY FOR NEUROTENSIN 7035
INTESTINAL NEUROTENSIN 7053
EGASYN, A PROTEIN STABILIZING GLUCURONIDASE MEMBRANE BINDING 7753
RADIOLYSIS
SEE ALSO PULSE RADIOLYSIS
RADIORECEPTOR ASSAYS
SEE ALSO RECEPTORS, HORMONAL
HGH REGULATION OF ITS OWN RECEPTOR CONCENTRATION ON IM-9 3720
RAMAN SPECTRA
RAMAN SPECTRA OF AN ANTIFREEZE GLYCOPROTEIN 2290
RANA CATESBEIANA
SEE ALSO TADPOLES
DNA SYNTHESIS AND TURNOVER DURING TADPOLE METAMORPHOSIS 4111
THYROXINE-INDUCED CHANGES IN AMPHIBIAN LIVER ORGANELLES 6161
RANA PIPIENS
SEE ALSO FROGS
RAT
CORTICOSTEROID-BINDING PROTEINS IN COLOSTRUM AND MILK 5272
RAT OLFACTORY MARKER PROTEIN 6232
RAT LIVER
MICHAELIS-MENTEN CONSTANT FOR HMG-CO A REDUCTASE 5828
RAUSCHER MURINE LEUKEMIA VIRUS
SEE ALSO LEUKEMIA VIRUS
REACTION MECHANISM
A NONCLASSICAL TRI UNI UNI PING PONG MECHANISM 7928
REC-A
DNA-DEPENDENT ATPASE 888
RECEPTORS
SEE ALSO BINDING PROTEINS
SEE ALSO BINDING SITES
RECEPTORS, ACETYLCHOLINE
MUSCARINIC ACETYLCHOLINE RECEPTOR FROM RAT BRAIN 1543
PARTICULATE NICOTINIC ACETYLCHOLINE RECEPTOR IN BRAIN 6335
RECEPTORS, ANGIOTENSIN
BRAIN ANGIOTENSIN RECEPTORS 7423
RECEPTORS, BACTERIAL
DEACETYLATION ACTIVITY OF SALMONELLA PHAGE C341 5361
RECEPTORS, CHOLINERGIC
AFFINITY PARTITIONING OF MEMBRANES 858
PURIFIED NICOTINIC ACETYLCHOLINE RECEPTOR FROM BRAIN 6327
RECEPTORS, CONCANAVALIN
SEE ALSO LECTINS
RECEPTORS, CYCLIC AMP
SEE ALSO CYCLIC AMP
RECEPTORS, HORMONAL
RECEPTOR-STEROID COMPLEX INTERACTIONS WITH ACCEPTOR SITES 334
NUCLEAR ESTROGEN RECEPTOR AND INITIATION OF RNA SYNTHESIS 516
BETA-ADRENERGIC RECEPTORS OF CULTURED CELLS 1221
IODINATED BETA-ADRENERGIC BLOCKER 1232
BETA-ADRENERGIC RECEPTOR INTERACTIONS 1239
THE NEGATIVE COOPERATIVITY OF INSULIN RECEPTORS 1877
EFFECT OF PHOSPHOLIPASES ON STEROID BINDING 2279
SOLUBLE BETA-ADRENERGIC RECEPTORS 2374
1-ALPHA, 25-DIHYDROXYVITAMIN D3-STIMULATED TEMPLATE ACTIVITY 2388
DESENSITIZATION BY LH OF LH-RESPONSIVE ADENYLYL CYCLASE 2653
CHARACTERIZATION OF PORCINE NEUROPHYSIN III 2735
BINDING AND DEGRADATION OF INSULIN BY HUMAN GRANULOCYTES 2761
PGE1 RECEPTORS AND ADENYLATE CYCLASE IN CULTURED CELLS 3037
ADIPOCYTE BETA-ADRENERGIC RECEPTORS 3896
FOLLITROPIN RECEPTOR INTERACTION 3326
HGH REGULATION OF ITS OWN RECEPTOR CONCENTRATION ON IM-9 3720
HORMONE BINDING EFFECTS ON NEUROPHYSIN QUATERNARY STRUCTURE 3965
ANDROGEN RECEPTORS IN RAT BRAIN 4047
TSH BINDING TO BEEF THYROID MEMBRANES 4247
BINDING OF VASOACTIVE INTESTINAL PEPTIDE 4629
CYCLIC AMP IN PANCREATIC ACINAR CELLS 4635
CYCLIC GMP IN PANCREATIC ACINAR CELLS 4648
NUCLEOTIDES REGULATE BETA-ADRENERGIC RECEPTORS 4686
THYROTROPIN RECEPTORS IN THYROID PLASMA MEMBRANES 4693
MECHANISM OF RECEPTOR ACTIVATION 4758
BINDING OF GONADOTROPIN TO SOLUBLE FACTORS FROM RAT TESTIS 4947
NEGATIVE COOPERATIVITY AMONG BETA-ADRENERGIC RECEPTORS 5087
PROGESTERONE RECEPTOR REGULATION OF CHROMATIN TRANSCRIPTION 5166
STEROID RECEPTOR SUBUNIT EFFECTS ON CHROMATIN TRANSCRIPTION 5178
CORTICOSTEROID-BINDING PROTEINS IN COLOSTRUM AND MILK 5272
CORRECTION TO BOCKAERT ET AL VOL. 251 (1976) P. 2653 5429
PROGESTERONE BINDING BY RABBIT AND GUINEA PIG UTERINE NUCLEI 5687
BINDING PROPERTIES OF ANDROGEN RECEPTORS 5820
CORRECTION TO DEMEYTS ET AL VOL. 251 (1976) P. 1877 6479
THYROXINE ANALOGUE BINDING TO THYROXINE BINDING GLOBULIN 6489
HORMONE RECEPTORS MICROFILAMENT MICROTUBULE MODIFIER EFFECTS 6844
IDENTIFICATION OF ALPHA-ADRENERGIC RECEPTORS 6915
DNA BINDING OF THYROID HORMONE RECEPTORS 7388
NUCLEAR THYROID HORMONE RECEPTORS 7388
GONADOTROPIN RECEPTORS IN CORPUS LUTEUM PLASMA MEMBRANES 7398
PHOSPHOLIPID ROLE IN CORPUS LUTEUM GONADOTROPIN RECEPTORS 7405
REFRACTORINESS BY ISOPROTERENOL IN MUTANT CELLS 7972
GONADOTROPIN INDUCED DESENSITIZATION OF ADENYLATE CYCLASE 7729
RECEPTORS, LECTIN
SEE ALSO LECTINS
SEE ALSO MEMBRANES
ABRIN AND RICIN BINDING KINETICS WITH HUMAN CELLS 3977
STEPS IN INHIBITION OF PROTEIN SYNTHESIS BY ABRIN AND RICIN 3985
EFFECT OF GLYCOSYLATION ON PLASMA HALF-LIFE OF RIBONUCLEASE 6616
RECEPTORS, LIPOPROTEIN
INTERACTION OF SWINE LIPOPROTEINS WITH THE LDL RECEPTOR 2395
CORRECTION TO BERSOT ET AL VOL. 251 (1976) P. 2395 3838
RECEPTORS, MEMBRANE
CYTOCHALASIN B BINDING TO FAT CELL PLASMA MEMBRANES 2905
RECEPTORS, NERVE GROWTH FACTOR
PROPERTIES OF NGF RECEPTORS IN EMBRYONIC BRAIN 1516
DEVELOPMENT OF NGF RECEPTORS IN EMBRYONIC BRAIN 1524
SOLUBILIZED NGF RECEPTORS 5686
RECEPTORS, RETINOL
INTRACELLULAR RETINOL-BINDING LIPOGLYCOPROTEINS 2952
RECEPTORS, RETINOL BINDING PROTEIN
CORRECTION TO HELLER VOL. 250 (1975) P. 3613 905
RECEPTORS, SURFACE
SEE ALSO MEMBRANES
FAT CELL CHOLERA TOXIN RECEPTOR 7618
RECEPTORS, TASTE
BIOCHEMISTRY OF TASTE. STIMULUS BINDING TO RECEPTORS 88
RECEPTORS, TOXIN
FAT CELL CHOLERA TOXIN RECEPTOR 7618
RECOMBINATION, GENETIC
REGULATION OF GENE 32 EXPRESSION DURING T4 INFECTION 7251
RED BLOOD CELLS
SEE ALSO BLOOD GROUPS
SEE ALSO HEMOGLOBIN
SEE ALSO RETICULOCYTES
2-D ELECTROPHORESIS OF ERYTHROCYTE MEMBRANE PROTEINS 253
HUMAN ERYTHROCYTE GLYCOPROTEINS 518
SUPEROXIDE MEDIATED METHEMOGLOBIN FORMATION 1015
HUMAN GALACTOSE-1-PHOSPHATE URIDYLYLTRANSFERASE 1657
ERYTHROCYTE MEMBRANE D-GLUCOSE TRANSPORT PROTEIN 1502
SOLUBLE BETA-ADRENERGIC RECEPTORS 2374
A23187 INCREASES POTASSIUM PERMEABILITY OF ERYTHROCYTES 3489
GLYCOPROTEIN-ENRICHED VESICLES FROM ERYTHROCYTE GHOSTS 3508
BLOOD GROUP ACTIVE GLYCOPROTEIN OF ERYTHROCYTE MEMBRANE 3618
UNIQUE PROSTHETIC GROUP OF ERYTHROCYTE HEMOPROTEIN 3927
ABRIN AND RICIN BINDING KINETICS WITH HUMAN CELLS 3977

PURIFICATION OF HUMAN ERYTHROCYTE ADENOSINE DEAMINASE 4426
IONOPHORE A23187 ALTERS ERYTHROCYTE PHOSPHOLIPID METABOLISM 4162
HUMAN ERYTHROCYTE PYRIMIDINE NUCLEOSIDE MONOPHOSPHATE KINASE 4179
OXYGEN-18 DEPLETION FROM CO2 IN ERYTHROCYTE SUSPENSIONS 4428
NUCLEOTIDES REGULATE BETA-ADRENERGIC RECEPTORS 4686
HORMONE-SENSITIVE RESEALED GHOSTS 4930
NEGATIVE COOPERATIVITY AMONG BETA-ADRENERGIC RECEPTORS 5007
ARRANGEMENT OF 95,000-DALTON PEPTIDE IN RED CELL MEMBRANE 5115
EFFECT OF PYRIDINE DERIVATIVES ON GLUCOSE TRANSPORT 5141
CARBONIC ANHYDRASE C SEQUENCE 5457
SHORTENING OF POLY(A) REGION OF MOUSE GLOBIN MESSENGER RNA 5512
PURIFICATION OF INITIATION FACTORS M2B-ALPHA + M2B-BETA 5551
HYSTERETIC KINETICS OF ERYTHROCYTE PYRUVATE KINASE 5600
SPECIFICITY IN THE INITIATION OF GLOBIN MRNA TRANSLATION 5718
INHIBITION OF PP-RIBOSE-P-SYNTHESIS BY PURINE NUCLEOSIDES 5839
MEMBRANE GLYCOPROTEINS OF EN(A-) ERYTHROCYTES 6108
SUPEROXIDE ANION AND DRUG INDUCED HEMOLYSIS 6468
GLUTATHIONE CONJUGATES OF PROSTAGLANDIN A1 6550
MEMBRANES OF DEVELOPING CHICK ERYTHROCYTES 6667
ISOLATION OF HUMAN ERYTHROCYTE PHOSPHOGLYCERATE MUTASE 6699
H5 HISTONE AND DNA-RELAXING ENZYME OF CHICKEN ERYTHROCYTES 7363
PHOTOACTIVATED CROSS-LINKING OF MEMBRANE PROTEINS 7413

REDOX POTENTIALS
SEE ALSO OXIDATION REDUCTION POTENTIALS

REDOX REACTIONS
1-ELECTRON REDOX REACTIONS BY FAST PULSE CYT-C/FERRICYANIDE 4336

REGENERATION
FATTY ACID INACTIVATION OF PHOSPHOFRUCTOKINASE 98

REGULATION
SEE ALSO ENZYMES, REGULATION

REL GENE
SEE ALSO STRINGENT CONTROL
STRINGENT CONTROL OF ELONGATION FACTORS 898

RELAXATION TIMES
SEE ALSO ELECTRON PARAMAGNETIC RESONANCE
SEE ALSO NUCLEAR MAGNETIC RESONANCE
SEE ALSO PROTON RELAXATION RATES

RENAL
SEE ALSO KIDNEY

REOVIRUS
RIBOSOME-PROTECTED REOVIRUS MESSENGER RNA FRAGMENTS 4259
FORMATION OF REOVIRUS MRNA TERMINAL SEQUENCE M7-GPPPG-M-PC 5043

REPAIR
SEE ALSO EXONUCLEASES

REPLICATION
SEE ALSO DNA, POLYMERASE

REPRESSOR, LAC
LAC REPRESSOR QUATERNARY STRUCTURE 3359
LIMITED PROTEOLYTIC DIGESTION OF LAC REPRESSOR 3386

REPTILES
IGUANA 5 S RNA NUCLEOTIDE SEQUENCE 6352

RESPIRATION
SEE ALSO MITOCHONDRIA
A RESPIRATION-DEFICIENT CHINESE HAMSTER CELL LINE 4588
STOICHIOMETRY OF MITOCHONDRIAL PROTON EJECTION 5670
PURIFICATION OF E. COLI RESPIRATORY CHAIN NADH DEHYDROGENASE 5911
KINETIC AND IMMUNOLOGICAL STUDY OF NADH DEHYDROGENASE 5921

RESTRICTION ENDONUCLEASE
SEE ALSO ONASE, RESTRICTION

RESTRICTION NUCLEASES
PHYSICAL AND CATALYTIC PROPERTIES OF ECO-RI ENDONUCLEASE 5866

RETICULOCYTES
SEE ALSO HEMOGLOBIN
SEE ALSO RED BLOOD CELLS
FLUORIDE AND INITIATION COMPLEXES OF PROTEIN SYNTHESIS 292
PROTEIN SYNTHESIS IN RABBIT RETICULOCYTES INITIATION 6379
PHOSPHORYLATION OF EUKARYOTIC INITIATION FACTORS 6471
REGULATION OF FOLATE REDUCTASE SYNTHESIS IN SARCOMA 180 CELL 6987
INITIATION FACTOR IF-E2 FROM RABBIT RETICULOCYTES 7675

RETINA
CORRECTION TO HELLER VOL. 250 (1975) P. 3613 905
CARBOHYDRATE COMPOSITION OF BOVINE RHODOPSIN 1548
ENZYME ACTIVITIES IN SUBCELLULAR FRACTIONS OF BOVINE RETINA 4700

RETINOL
CORRECTION TO HELLER VOL. 250 (1975) P. 3613 905
FORMATION AND PROPERTIES OF RETINYLPHOSPHATE GALACTOSE 4986
ANOMERIC CONFIGURATION OF D-MANNOSYL RETINYL PHOSPHATE 6465

RETINOL BINDING PROTEIN
UPTAKE OF VITAMIN A TO TISSUE CELLS 6360
INTRACELLULAR RETINOL-BINDING LIPOGLYCOPROTEINS 2952

RETINYL PHOSPHATE
ANOMERIC CONFIGURATION OF D-MANNOSYL RETINYL PHOSPHATE 6465

RETINYLPHOSPHATE GALACTOSE
FORMATION AND PROPERTIES OF RETINYLPHOSPHATE GALACTOSE 4986

REUBER H35 CELLS
REGULATION OF PHOSPHOENOLPYRUVATE CARBOXYKINASE DEGRADATION 3586

REUBER H4 CELLS
CATECHOLAMINE INACTIVATION OF PHENYLALANINE HYDROXYLASE 3671
ACTION OF P-CHLOROPHENYLALANINE OF PHENYLALANINE HYDROXYLASE 3677

REVERSE TRANSCRIPTASE
SEE ALSO DNA, POLYMERASE
FIDELITY OF DNA REPLICATION 975
ON THE FIDELITY OF DNA REPLICATION 982
IMPORTANCE OF FULL-SIZE CDNA IN NUCLEIC ACID HYBRIDIZATION 3425
ESTROGEN EFFECT ON COMPLEXITY OF POLY(A)-RNA IN OVIDUCT 3738
SYNTHESIS OF THE OVALBUMIN GENE 7355

RHAMNOSE
DEACETYLATION ACTIVITY OF SALMONELLA PHAGE C341 5361

RHO ANTIGENS
IMPERMEANT MALEIMIDES AND ERYTHROCYTE MEMBRANE PROTEINS 7176

RHO FACTOR
ATPASE REQUIREMENT IN RHO FUNCTION 2520

RHODOPSEUDOMONAS GELATINOSA
AMINO ACID SEQUENCE OF R. GELATINOSA HIPIP 129

RHODOPSIN
CARBOHYDRATE COMPOSITION OF BOVINE RHODOPSIN 1548
ENZYME ACTIVITIES IN SUBCELLULAR FRACTIONS OF BOVINE RETINA 4700
BIOLOGICAL ELECTRIC GENERATORS. BACTERIORHODOPSIN 7659

RHODOTORULA GLUTINIS
PHENYLALANINE AMMONIA-LYASE INDUCTION PURIFICATION CLEARANCE 4646

RIBOFLAVIN
SUPEROXIDE MEDIATED METHEMOGLOBIN FORMATION 1015
TRANSPORT OF RIBOFLAVIN IN YEAST 3221
BIOSYNTHESIS OF RIBOFLAVIN 3623

RIBONUCLEASE
SEE ALSO RNASE
EFFECT OF GLYCOSYLATION ON PLASMA HALF-LIFE OF RIBONUCLEASE 6016

RIBONUCLEIC ACID
SEE ALSO RNA

RIBONUCLEOPROTEINS
SEE ALSO RIBOSOMES
SEE ALSO RNA
RNA AND PROTEIN OF NUCLEAR RIBONUCLEOPROTEIN AND CHROMATIN 2592
CYTOPLASMIC NONPOLYSOMAL MYOSIN HEAVY CHAIN MRNP 7600

RIBONUCLEOSIDE DIPHOSPHATE REDUCTASE
ACTIVE SITE OF RIBONUCLEOSIDE DIPHOSPHATE REDUCTASE 1398

RIBONUCLEOTIDE DIPHOSPHATE REDUCTASE
BINDING OF SUBSTRATES TO RIBONUCLEOTIDE REDUCTASE 3616

RIBONUCLEOTIDES
SEE ALSO RNA

RIBOSE PHOSPHATE
ENZYMES INVOLVED IN VESICLE TRANSPORT 1181
COMPARATIVE BINDING AND RATE STUDY OF AMP NUCLEOSIDASE 3417

RIBOSE 1-PHOSPHATE
LIVER PURINE NUCLEOSIDE PHOSPHORYLASE 407

RIBOSOMAL PROTEINS
SEE ALSO PROTEIN, RIBOSOMAL

RIBOSOMAL RNA
SEE ALSO RNA, RIBOSOMAL

RIBOSOMES
SEE ALSO POLYSOMES
SEE ALSO PROTEIN, RIBOSOMAL
SEE ALSO PROTEIN, SYNTHESIS
SEE ALSO RNA
RECONSTITUTION OF 50 S RIBOSOMES FROM PURIFIED COMPONENTS 209
SITE OF RIBOSOME DEGRADATION IN STARVED ESCHERICHIA COLI 1147
PHOSPHORYLATION OF RIBOSOMAL PROTEIN 1500
ELONGATION FACTOR G BINDING TO THE RIBOSOME 1795
THE RIBOSOMAL PROTEINS OF SACCHAROMYCES CEREVISIAE 1799
BINDING OF HOST FACTOR AND S1 TO Q-BETA AND R17 RNA 1902
MODE OF ACTION OF BOTTROMYCIN A2 2299
TRANSLATION SPECIFICITY OF BACTERIAL RIBOSOMES AND MRNA 2499
CORRECTION TO COHLBERG AND NOMURA VOL.251 (1976) P. 209 2540
CHLORAL HYDRATE CAUSES BREAKDOWN OF POLYSOMES IN VIVO 2637
PEPTIDYL TRANSFER RNA DISSOCIATES FROM RIBOSOMES OF E. COLI 3392
RIBOSOME-PROTECTED REOVIRUS MESSENGER RNA FRAGMENTS 4259
PURIFICATION OF EUKARYOTIC RIBOSOMAL PROTEINS 4666
FREE RIBOSOMES IN RESTING LYMPHOCYTES 4891
SYNTHESIS OF RIBOSOMAL PROTEINS L7L12 5516
WHEAT GERM 80S RIBOSOME METHIONYL-TRNA COMPLEX 6075
PHOSPHORYLATION OF EUKARYOTIC INITIATION FACTORS 6471
INTERACTIONS OF ADPRIB-EF-2 WITH RIBOSOMES 6544
A NEW ENDORIBONUCLEASE FROM ESCHERICHIA COLI RIBONUCLEASE N 7669
CROSS-LINKING OF IF2 TO RIBOSOMAL PROTEINS L7/L12 7779
PURIFICATION OF EUKARYOTIC RIBOSOMAL PROTEINS 7940

RIBOSOMES, PROTEIN
STOICHIOMETRY OF HELA NUCLEOLAR RIBOSOMAL PROTEINS 2867
EXCHANGE AND STABILITY OF HELA RIBOSOMAL PROTEINS IN VIVO 2876

RIBOSYLTHYMINE
FOLATE-DEPENDENT RIBOTHYMIDINE BIOSYNTHESIS 7649

RIBULOSE DIPHOSPHATE CARBOXYLASE
SITES OF SYNTHESIS OF MAJOR PROTEINS IN PLANT LEAF TISSUE 2848

RIBULOSE 5-PHOSPHATE
6-PHOSPHOGLUCONATE DEHYDROGENASE 7127

RICIN
ABRIN AND RICIN BINDING KINETICS WITH HUMAN CELLS 3977
STEPS IN INHIBITION OF PROTEIN SYNTHESIS BY ABRIN AND RICIN 3985
RICIN-RESISTANT MOUSE L CELL LINES 7761

RICKETTSIA PROWAZEKI
ADP-ATP TRANSPORT IN RICKETTSIAE 389

RNA
SEE ALSO RNA, TRANSFER
RSV AND MULV HIGH MOLECULAR WEIGHT RNAS CONTAIN TWO SUBUNITS 141
ALL RNA SUBUNITS FROM RSV CONTAIN POLY A 150
BINDING OF HOST FACTOR AND S1 TO Q-BETA AND R17 RNA 1902
CHARACTERIZATION OF EIF-3 1926
NUCLEIC ACID MELTING BY CALF UNWINDING PROTEINS 2133
ATPASE REQUIREMENT IN RHO FUNCTION 2520
CORRECTION TO MARTIN ET AL VOL. 250 (1975) P. 9322 2539
STRUCTURAL POLYPEPTIDES OF TYPE-C VIRUS 4859

RNA PROCESSING
PRECURSOR RNA TO E. COLI 4.5 S RNA 7709

RNA, AMINOACYLTRANSFER
SEE ALSO AMINOACYL-TRNA SYNTHETASE
SEE ALSO RNA, TRANSFER

RNA, CONFORMATION
AMINOACYL-TRANSFER RNA CONFORMATION 6730

RNA, HETEROGENEOUS NUCLEAR
RNA AND PROTEIN OF NUCLEAR RIBONUCLEOPROTEIN AND CHROMATIN 2592

RNA, MESSENGER
SEE ALSO PROTEIN, SYNTHESIS
BIOSYNTHESIS OF HUMAN PLACENTAL LACTOGEN MRNA 820
ASSAY OF TROUT TESTIS PROTAMINE MRNA 1446
PURIFICATION AND PROPERTIES OF TROUT TESTIS PROTAMINE MRNA 1455
CELL-FREE SYNTHESIS OF HUMAN PLACENTAL LACTOGEN 1723
EFFECT OF ESTROGEN ON GENE EXPRESSION IN CHICK OVIDUCT 1960
TRANSLATION SPECIFICITY OF BACTERIAL RIBOSOMES AND MRNA 2499
CORRECTION TO MARTIN ET AL VOL. 250 (1975) P. 9322 2539
SYNTHESIS OF A LARGE TRANSLATION PRODUCT OF PROLACTIN MRNA 2881
M-RNA-DIRECTED CELL-FREE SYNTHESIS OF A PROLACTIN PRECURSOR 2842
POST-TRANSCRIPTIONAL CONTROL OF BETA-GALACTOSIDASE SYNTHESIS 2854
METHYLATED, BLOCKED 5-PRIME TERMINI OF YEAST M-RNA 2898
SYNTHESIS OF HPL AND HCG BY PLACENTAL POLYRIBOSOMES AND MRNA 2945
MALIC ENZYME SYNTHESIS IN CULTURE 3027
ESTROGEN INDUCTION OF VITELLOGENIN MESSENGER RNA 3105
STABILIZATION OF RNA BY POLY(A)-INDUCED INHIBITION OF RNASE 3287
IMPORTANCE OF FULL-SIZE CDNA IN NUCLEIC ACID HYBRIDIZATION 3425
CONTROL OF ALPHA 2U GLOBULIN MRNA BY SEX HORMONES 3594
ESTROGEN EFFECT ON COMPLEXITY OF POLY(A)-RNA IN OVIDUCT 3738
EFFECT OF HYPOPHYSECTOMY ON ALBUMIN SYNTHESIS 3768
SUBSTANTIAL PURIFICATION OF THE OVALBUMIN CODING DNA STRAND 3868
PRE-PROPARATHYROID HORMONE BIOSYNTHESIS 3893
RIBOSOME-PROTECTED REOVIRUS MESSENGER RNA FRAGMENTS 4259
DELTA-CRYSTALLIN DNA REITERATION FREQUENCY 4294
IN VITRO SYNTHESIS OF ALDOLASE TETRAMERS 4355
EFFECTS OF ESTROGEN ON GENE EXPRESSION ROLE OF NONHISTONE 4713
FORMATION OF REOVIRUS MRNA TERMINAL SEQUENCE M7-GPPPG-M-PC 5043
MESSENGER RNA (GUANINE-7-)-METHYLTRANSFERASE OF HELA CELLS 5203
SHORTENING OF POLY(A) REGION OF MOUSE GLOBIN MESSENGER RNA 5512
METHYLATED GUANOSINE NUCLEOTIDE INHIBITS HELA TRANSLATION 5657
SPECIFICITY IN THE INITIATION OF GLOBIN MRNA TRANSLATION 5718
POLYNUCLEOTIDE INHIBITION OF HUMAN LIVER RIBONUCLEASE 5745
POLY(A)-RICH RIBONUCLEOPROTEIN COMPLEXES IN HELA MRNA 5888
LIPOPROTEIN MRNA FROM ESCHERICHIA COLI 6259
TRANSLATION OF YEAST CYTOCHROME C MRNA 6320
NON-HISTONES ARE POSITIVE REGULATION OF OVALBUMIN GENE 6475
REGULATION OF FOLATE REDUCTASE SYNTHESIS IN SARCOMA 180 CELL 6987
TRANSLATIONAL, AUTOGENOUS CONTROL OF GENE 32 EXPRESSION 7263
SPECIFICITY OF VACCINIA MRNA GUANYLYL- AND METHYLTRANSFERASE 7313
ISOLATION OF RAT LIVER ALBUMIN MESSENGER RNA 7461
CYTOPLASMIC NONPOLYSOMAL MYOSIN HEAVY CHAIN MRNP 7600

RNA, MITOCHONDRIAL
MITOCHONDRIAL RRNAS IN NEUROSPORA 3081
RNA, POLYMERASE
NUCLEAR ESTROGEN RECEPTOR AND INITIATION OF RNA SYNTHESIS 516
IN VITRO SYNTHESIS OF OVALBUMIN MRNA 524
SUBUNIT STRUCTURE OF MOUSE PLASMACYTOMA RNA POLYMERASE III 1064
EFFECT OF ESTROGEN ON GENE EXPRESSION IN THE CHICK OVIDUCT 1137
LARGE SCALE PURIFICATION OF YEAST RNA POLYMERASE I 1464
STRUCTURAL STUDIES ON YEAST RNA POLYMERASES 1712
EFFECT OF ESTROGEN ON GENE EXPRESSION IN CHICK OVIDUCT 1960
1-ALPHA, 25-DIHYDROXYVITAMIN D3-STIMULATED TEMPLATE ACTIVITY 2388
ATPASE REQUIREMENT IN RHO FUNCTION 2520
ALPHA-AMANITIN-RESISTANT RNA POLYMERASE II 2729
IMPORTANCE OF FULL-SIZE CDNA IN NUCLEIC ACID HYBRIDIZATION 3425
SUBUNIT STRUCTURE OF BOMBYX MORI RNA POLYMERASE III 3794
RNA POLYMERASE FROM VESICULAR STOMATITIS VIRUS 4307
ESTRADIOL EFFECT ON SOLUBILIZED UTERINE RNA POLYMERASES 4843
PROGESTERONE RECEPTOR REGULATION OF CHROMATIN TRANSCRIPTION 5166
STEROID RECEPTOR SUBUNIT EFFECTS ON CHROMATIN TRANSCRIPTION 5178
PHOSPHORYLATION OF RNA POLYMERASE I 5408
EFFECT OF ESTROGEN ON GENE EXPRESSION IN THE CHICK OVIDUCT 5565
RNA, RIBOSOMAL
SEE ALSO PROTEIN, SYNTHESIS IN VITRO
SEE ALSO RIBOSOMES
SEE ALSO RNA
SUBUNIT STRUCTURE OF MOUSE PLASMACYTOMA RNA POLYMERASE III 1064
SITE OF RIBOSOME DEGRADATION IN STARVED ESCHERICHIA COLI 1147
MITOCHONDRIAL RRNAS IN NEUROSPORA 3081
B. SUBTILIS AND B. STEAROTHERMOPHILUS 5S RNAS 3122
STABILIZATION OF RNA BY POLY(A)-INDUCED INHIBITION OF RNASE 3287
NUCLEOTIDE SEQUENCE OF A R-RNA PRECURSOR FROM B. SUBTILIS 3480
IGUANA 5 S RNA NUCLEOTIDE SEQUENCE 6352
FOLATE-DEPENDENT RIBOTHYMIDINE BIOSYNTHESIS 7649
A NEW ENDORIBONUCLEASE FROM ESCHERICHIA COLI RIBONUCLEASE N 7669
RNA, STRUCTURE
PROMOTER SEQUENCE OF TYROSINE TRNA GENE 4481
RNA, SYNTHESIS
SEE ALSO Q-BETA REPLICASE
SEE ALSO RNA, POLYMERASE
STRINGENT CONTROL OF ELONGATION FACTORS 898
ASSOCIATION OF EF-TU.TS IN Q-BETA REPLICASE 2740
EFFECT OF EF-TU INHIBITORS ON Q-BETA REPLICASE RENATURATION 2749
NUCLEOTIDE SEQUENCE OF A R-RNA PRECURSOR FROM B. SUBTILIS 3480
RNA, TRANSFER
SEE ALSO AMINOACYL-TRNA SYNTHETASE
SEE ALSO PROTEIN, SYNTHESIS IN VITRO
SEE ALSO SPECIFIC AMINOACYL TRNA SYNTHETASE
EFFECT OF METALS ON ESCHERICHIA COLI ARGINYL-TRNA SYNTHETASE 241
FLUORIDE AND INITIATION COMPLEXES OF PROTEIN SYNTHESIS 292
THE PHYSICAL MAPPING OF BACTERIOPHAGE T5 TRANSFER TRNAS 536
SYNTHESIS OF A TYROSINE SUPPRESSOR TRNA PRECURSOR GENE 565
SYNTHESIS OF A TYROSINE SUPPRESSOR TRNA PRECURSOR GENE 571
SYNTHESIS OF A TYROSINE SUPPRESSOR TRNA PRECURSOR GENE 587
SYNTHESIS OF A TYROSINE SUPPRESSOR TRNA PRECURSOR GENE 599
SYNTHESIS OF A TYROSINE SUPPRESSOR TRNA PRECURSOR GENE 609
SYNTHESIS OF A TYROSINE SUPPRESSOR TRNA PRECURSOR GENE 624
SYNTHESIS OF A TYROSINE SUPPRESSOR TRNA PRECURSOR GENE 634
SYNTHESIS OF A TYROSINE SUPPRESSOR TRNA PRECURSOR GENE 642
SYNTHESIS OF A TYROSINE SUPPRESSOR TRNA PRECURSOR GENE 651
SYNTHESIS OF A TYROSINE SUPPRESSOR TRNA PRECURSOR GENE 667
TRANSFER RNA PRECURSORS FROM ESCHERICHIA COLI 922
SUBUNIT STRUCTURE OF MOUSE PLASMACYTOMA RNA POLYMERASE III 1064
AMINO ACID COMPARTMENTATION AND HEPATIC PROTEIN TURNOVER 1375
CONFORMATIONAL CHANGE IN TRNA-PHE UPON AMINOACYLATION 1529
MODE OF ACTION OF BOTTROMYCIN A2 2299
TRNA BIOSYNTHESIS. SPECIFICITY OF RNASE P 2440
INTERACTION OF BACTERIAL IF-2 WITH INITIATOR TRNA 3338
PEPTIDYL TRANSFER RNA DISSOCIATES FROM RIBOSOMES OF E. COLI 3392
PROMOTER SEQUENCE OF TYROSINE TRNA GENE 4481
BIOSYNTHESIS OF PSEUDOURIDINE IN TRNA BY EUKARYOTIC ENZYMES 4570
NUCLEOTIDE SEQUENCES AT THE TWO ENDS OF TRNA-TYR GENES 5124
BINDING SITES ON TRYPTOPHANYL-TRNA SYNTHETASE OF E. COLI 5195
POLYAMINES AND TRNA NUCLEOTIDYLTRANSFERASE 6646
AMINOACYL-TRANSFER RNA CONFORMATION 6730
AMINOACYL TRANSFER RNA SYNTHETASE-TRANSFER RNA COMPLEX 6823
FOLATE-DEPENDENT RIBOTHYMIDINE BIOSYNTHESIS 7649
RNA, 4.5 S
PRECURSOR RNA TO E. COLI 4.5 S RNA 7789
RNA, 5 S
SEE ALSO RNA, RIBOSOMAL
RNA, 5S
B. SUBTILIS AND R. STEAROTHERMOPHILUS 5S RNAS 3122
NUCLEOTIDE SEQUENCE OF A R-RNA PRECURSOR FROM B. SUBTILIS 3480
RNASE
SITE OF RIBOSOME DEGRADATION IN STARVED ESCHERICHIA COLI 1147
THE RNASE-S-PEPTIDE ANALOG. RECOGNITION OF S-PROTEIN 1333
RIBONUCLEASE QUANTITATIVE AFFINITY CHROMATOGRAPHY 2044
ASSIGNMENT OF RNASE NMR RESONANCES 2644
CONFORMATION OF S-PROTEIN 2648
STABILIZATION OF RNA BY POLY(A)-INDUCED INHIBITION OF RNASE 3287
RNASE III CLEAVAGE OF SINGLE-STRANDED RNA 3807
RIBOSOME-PROTECTED REOVIRUS MESSENGER RNA FRAGMENTS 4259
POLYNUCLEOTIDE INHIBITION OF HUMAN LIVER RIBONUCLEASE 5745
HUMAN SPLEEN RIBONUCLEASE PURIFICAITON BY IMMUNOADSORPTION 5752
ENDORIBONUCLEASE FROM HELA CELL NUCLEI 7132
EFFECTS OF RNASE BINDING ON DNA CONFORMATION AND STABILITY 7198
PURIFICATION OF AN ENDONUCLEASE FROM NUCLEI OF 3T3 CELLS 7746
RNASE III
RNASE III CLEAVAGE OF SINGLE-STRANDED RNA 3807
RNASE M5
NUCLEOTIDE SEQUENCE OF A R-RNA PRECURSOR FROM B. SUBTILIS 3480
RNASE NU
PRECURSOR RNA TO E. COLI 4.5 S RNA 7789
RNASE P
TRANSFER RNA PRECURSORS FROM ESCHERICHIA COLI 922
TRNA BIOSYNTHESIS. SPECIFICITY OF RNASE P 2440
PRECURSOR RNA TO E. COLI 4.5 S RNA 7789
RNASE S-PROTEIN
SEE ALSO RNASE
RNASE, N
A NEW ENDORIBONUCLEASE FROM ESCHERICHIA COLI RIBONUCLEASE N 7669
RODS
SEE ALSO RETINOL
CARBOHYDRATE COMPOSITION OF BOVINE RHODOPSIN 1548
ROOT EFFECT
ROOT EFFECT HEMOGLOBIN OF A MARINE FISH 1871
ROTENONE
HEPATIC MITOCHONDRIAL ACETALDEHYDE OXIDATION 4988
ROUS SARCOMA VIRUS
RSV AND NULV HIGH MOLECULAR WEIGHT RNAS CONTAIN TWO SUBUNITS 141
RUBIDIUM
SEE ALSO TRANSPORT, ION
SIZE-DEPENDENT EFFECTS OF MONOVALENT CATIONS 4315
RUHEN
CELL-FREE HYDROGENATION OF CIS-9, TRANS-11-OCTADECADIENOATE 2241
RUTAMYCIN
PROTON TRANSLOCATING ATPASE 2493
RUTHENIUM RED
CALCIUM BINDING TO ADIPOCYTE PLASMA MEMBRANES 5345

S

S-100 PROTEIN
BUFFER AND PH EFFECTS ON BRAIN-SPECIFIC PROTEIN ACCUMULATION 5112
S-180 CELLS
SYNTHESIS AND DEGRADATION OF FOLATE REDUCTASE 3663
SACCHAROMYCES CARLSBERGENSIS
VITAMIN B6 TRANSPORT IN YEAST 1642
LIPID ACCUMULATION IN YEAST DUE TO INOSITOL DEFICIENCY 5759
SACCHAROMYCES CEREVISIAE
SEE ALSO YEAST
PREPARATION OF YEAST (S. CEREVISIAE) PYRUVATE KINASE 124
RESOLUTION OF CYTOCHROME OXIDASES.ENZYMES WITH FIVE SUBUNITS 257
CYTOCHROME OXIDASE WITH FOUR POLYPEPTIDE SUBUNITS 278
LARGE SCALE PURIFICATION OF YEAST RNA POLYMERASE I 1464
THE RIBOSOMAL PROTEINS OF SACCHAROMYCES CEREVISIAE 1799
YEAST CYTOCHROME C1 1991
YEAST CYTOCHROME C1 1997
METHYLATED, BLOCKED 5-PRIME TERMINI OF YEAST M-RNA 2898
TRANSPORT OF RIBOFLAVIN IN YEAST 3221
YEAST CHITIN SYNTHETASE ACTIVATING FACTOR 3367
STABILITY AND ACTIVITY OF ISOPROPYLMALATE ISOMERASE 3545
CYCLOHEXIMIDE INHIBITION OF PROTEIN SYNTHESIS INITIATION 7278
SALICYLALDEHYDE
ORGANIZATION OF MEMBRANE PPOTEINS IN INTACT MYELIN SHEATH 4729
SALMONELLA ANATUM
DEACETYLATION ACTIVITY OF SALMONELLA PHAGE C341 5361
SALMONELLA TYPHIMURIUM
TRANSPORT OF VITAMIN B6 IN S. TYPHIMURIUM 1652
CORRECTION TO SAIER ET AL VOL. 250 (1975) P. 7593 1531
REACTION MECHANISM FOR O-ACETYLSERINE SULFHYDRYLASE 2623
RECONSTITUTION OF PERMEABILITY CHANNELS 2176
BIOSYNTHESIS OF RIBOFLAVIN 3623
SUGAR TRANSPORT AND TRANSPHOSPHORYLATION SYSTEM 3834
ENZYME MEDIATED MUTAGENESIS OF BENZPYRENE 4882
OLIGOPEPTIDE TRANSPORT 5388
SALT EFFECTS
SEE ALSO SPECIFIC SALTS
SALT GLANDS
AVIAN (NA+,K+)ATPASE PURIFICATION AND NH2-TERMINAL SEQUENCE 4365
SARCOMA CELLS
SYNTHESIS AND DEGRADATION OF FOLATE REDUCTASE 3663
SARCOMA VIRUS
SEE ALSO ROUS SARCOMA VIRUS
CYCLIC GMP METABOLISM IN NORMAL AND TRANSFORMED FIBROBLASTS 2344
SARCOMA 180 CELLS
REGULATION OF FOLATE REDUCTASE SYNTHESIS IN SARCOMA 180 CELL 6987
SARCOPLASMIC RETICULUM
TRYPTIC FRAGMENTS OF SARCOPLASMIC RETICULUM ATPASE 712
EFFECTS OF PROTEIN KINASE ON SARCOPLASMIC RETICULUM 725
SIDEDNESS OF MEMBRANE PHOSPHORYLATION DURING ATP SYNTHESIS 1413
BIOSYNTHESIS OF THE ATPASE OF SARCOPLASMIC RETICULUM 2030
ARRANGEMENT OF PROTEINS IN SARCOPLASMIC RETICULUM 2037
ATP SYNTHESIS IN SARCOPLASMIC RETICULUM VESICLES 2055
KINETIC EFFECTS OF CALCIUM ON SARCOPLASMIC RETICULUM ATPASE 2307
GLYCOGENOLYSIS AND CARDIAC SARCOPLASMIC RETICULUM 3140
RECONSTITUTION OF A CALCIUM PUMP IN SARCOPLASMIC RETICULUM 3169
CA++-IONOPHORE ACTIVITY IN ATPASE FRAGMENT 4147
ROLE OF PHOSPHOLIPIDS IN THE CALCIUM-DEPENDENT ATPASE 4224
ETHOXYFORMYLATION OF SARCOPLASMIC RETICULUM VESICLES 4322
MECHANISM OF ATP HYDROLYSIS BY SARCOPLASMIC RETICULUM 5414
CORRECTION TO HIDALGO ET AL VOL. 251 (1976) P. 4224 6160
PHOSPHORYLATION OF THE SARCOPLASMIC RETICULUM MEMBRANE 6355
ATPASE OF SARCOPLASMIC RETICULUM 6894
STIMULATION OF CALCIUM PUMP BY MONOVALENT CATIONS 6947
RESTORATION OF CALCIUM TRANSPORT ATPASE 7271
CA2+ AFFINITY TO PHOSPHORYLATED SR ATPASE 7275
BIOSYNTHESIS OF CALSEQUESTRIN 7733
SCORPION TOXIN
PURIFICATION OF A TOXIC PROTEIN FROM SCORPION VENOM 5528
SDS
SEE ALSO SODIUM DODECYL SULFATE
SEA URCHINS
GUANYLATE CYCLASE PURIFICATION 4071
DYNEIN 2 ATPASE FROM SEA URCHIN SPERM FLAGELLA 5793
SECRETIN
BINDING OF VASOACTIVE INTESTINAL PEPTIDE 4629
CYCLIC AMP IN PANCREATIC ACINAR CELLS 4635
SECRETION
BOVINE SECRETORY COMPONENT. ISOLATION AND CHARACTERIZATION 1969
ADENYLATE CYCLASE ACTIVITY IN SECRETORY VESICLES 2179
ADENYLATE CYCLASE ACTIVITY IN SECRETORY VESICLES 2179
CHARACTERIZATION OF PORCINE NEUROPHYSIN III 2735
COLCHICINE INHIBITION OF HEPATIC GLYCOPROTEIN SECRETION 3867
CHROMAFFIN GRANULE MEMBRANE POTENTIAL 4544
BINDING OF VASOACTIVE INTESTINAL PEPTIDE 4629
HIGH CONCENTRATIONS OF MYO-INOSITOL STIMULATE SECRETION 5878
CA2+-INDUCED CONFORMATIONAL CHANGE IN ADRENAL MEDULLA TN-C 6315
SECRETORY COMPONENT
BOVINE SECRETORY COMPONENT. ISOLATION AND CHARACTERIZATION 1969
SEDIMENTATION
SEE ALSO ULTRACENTRIFUGATION
SEDOHEPTULOSE 7-PHOSPHATE
OXIDATION OF TRANSALDOLASE INTERMEDIATE 4220
SEEDS
SEE ALSO SPECIFIC PLANT
INDOLE-3-ACETALDEHYDE REDUCTASES 987
SELENIUM
PROLINE REDUCTASE. PURIFICATION AND PROPERTIES 2435
SELF-ASSOCIATION
SEE ALSO PROTEIN, SUBUNITS
SEMLIKI FOREST VIRUS
PLASMA MEMBRANE IS ORIGIN OF SEMLIKI FOREST VIRUS ENVELOPE 5544
SENSATION
BIOCHEMISTRY OF TASTE. STIMULUS BINDING TO RECEPTORS 88
SEPHAROSE
SEE ALSO CHROMATOGRAPHY, AFFINITY
SEPHAROSE-ATP
PURIFICATION AND MECHANISM STUDIES ON CITRATE SYNTHASE 1476
SERINE
MECHANISM OF 3-KETOSPHINGANINE SYNTHETASE 1597
REACTION MECHANISM FOR O-ACETYLSERINE SULFHYDRYLASE 2623

C13 NMR STUDY-NONENZYMATIC REACTIONS OF PLP WITH AMINO ACIDS 7661
SERINE (IN PROTEINS)
SEE ALSO PHOSPHOPROTEINS
SEE ALSO PROTEIN, KINASES
SEE ALSO PROTEIN, PHOSPHORYLATION
HALOMETHYL KETONES FORM TETRAHEDRAL ADDUCTS WITH SUBTILISIN 1097
MICROHETEROGENEITY OF MYELIN BASIC PROTEIN 2671
NEW VITAMIN K-DEPENDENT ZYMOGEN 3052
YEAST CHITIN SYNTHETASE ACTIVATING FACTOR 3367
P-ENZYME INTERMEDIATE IN THE GLUCOSE-1,6-P2 SYNTHASE 5431
SPECTRAL CHANGES IN FACTOR X ASSOCIATED WITH ACTIVATION 6807
PHOSPHORYLASE KINASE AUTOPHOSPHORYLATION AND SUBSTRATES 7480
SERINE DEHYDRATASE
13C NMR SPECTROSCOPY 2248
STEROID REGULATION OF ENZYME SYNTHESIS IN RAT LIVER IN VIVO 2571
ESSENTIAL ARGINYL RESIDUES OF D-SERINE DEHYDRATASE 6179
SERINE TRNA
TRNA BIOSYNTHESIS SPECIFICITY OF RNASE P 2448
SERINE, STEREOSPECIFICALLY TRITIATED
STEREOCHEMISTRY OF CYSTEINE FORMATION 5478
SERUM
SEE ALSO LIPOPROTEINS
PROSTAGLANDIN BIOSYNTHESIS AND VASOACTIVE SUBSTANCES 776
STUDIES ON HUMAN SERUM HIGH DENSITY LIPOPROTEINS 1131
DIFFERENTIATION OF LYMPHOID CELLS 2469
STIMULATION OF PROTEOGLYCAN SYNTHESIS BY SERUM FACTORS 3763
ANTIGENIC STRUCTURE OF SERUM ALBUMIN 4616
SEX
CONTROL OF ALPHA 2U GLOBULIN MRNA BY SEX HORMONES 3594
RAT LIVER N-HYDROXY-2-ACETYLAMINOFLUORENE SULFOTRANSFERASE 6529
SEX DIFFERENCE
ANDROGEN RECEPTORS IN RAT BRAIN 4047
SIALIC ACID
SEE ALSO GLYCOPROTEINS
SEE ALSO GLYCOSYLTRANSFERASES
SEE ALSO NEURAMINIC ACID, N-ACETYL
SIALIDASE
SEE ALSO NEURAMINIDASE
SICKLE CELL HEMOGLOBIN
AGGREGATION OF DEOXYHEMOGLOBINS AT LOW CONCENTRATIONS 7657
SICKLE CELLS
SEE ALSO HEMOGLOBIN
METHYLISOCYANATE AS AN ANTI-SICKLING AGENT 6226
MONOSPECIFIC ANTIBODIES TO SICKLE HEMOGLOBIN BETA CHAINS 6431
SICKLE HEMOGLOBIN
SYNTHESIS OF PEPTIDES FROM SICKLE HEMOGLOBIN BETA CHAIN 6426
SILICONE
ACID-INDUCED PHOSPHORYLATION OF BOUND ADP 7417
SILKWORM
MODE OF ACTION OF CYCLIC GMP ON PROTEIN KINASE 1481
SUBUNIT STRUCTURE OF BOMBYX MORI DNA POLYMERASE III 3794
SITES IN HISTONES PHOSPHORYLATED BY PROTEIN KINASES 6287
SIMIAN VIRUS
SEE ALSO SV-40 VIRUS
SKIN
EPIDERMAL TRANSGLUTAMINASE 7281
SLIME MOLD
SEE ALSO DICTYOSTELIUM DISCOIDEUM
SMITH DEGRADATION
HETEROCYST AND SPORE POLYSACCHARIDES 2967
SNAKES
SEE ALSO NEUROTOXIN
SEE ALSO VENOMS
NEUROTOXIC PHOSPHOLIPASE A SEQUENCE 7343
SODIUM
SEE ALSO ATPASE
SEE ALSO IONIC STRENGTH
SEE ALSO IONOPHORES
SEE ALSO TRANSPORT, ION
CROSSLINKING OF NA-K ATPASE 1247
CORRECTION TO YANG + SRIVASTAVA VOL. 250 (1975) P.79 1531
NEW INTERMEDIATE IN MECHANISM OF NA + K ATPASE 2186
SIZE-DEPENDENT EFFECTS OF MONOVALENT CATIONS 4315
AVIAN (NA+,K+)ATPASE PURIFICATION AND NH2-TERMINAL SEQUENCE 4365
SPECIFIC SODIUM-22 BINDING TO A PURIFIED (NA+-K+)-ATPASE 4794
STIMULATION OF CALCIUM PUMP BY MONOVALENT CATIONS 6947
SODIUM DODECYL SULFATE
LIPID ACTIVATION OF A MEMBRANE ENZYME. BIOPHYSICAL STUDIES 1270
SODIUM PUMP
EFFECT OF T3 ON (NA+, K+)ATPASE SYNTHESIS 7834
SOLID STATE PEPTIDE SYNTHESIS
SEE ALSO PROTEIN, SYNTHESIS (CHEMICAL)
SOLUBILIZATION
SOLUBILIZATION NORMALIZES ADENYLATE CYCLASE ACTIVITY 7950
SOLVENT ACCESSIBILITY
SEE ALSO HYDROGEN EXCHANGE
SOMATIC CELL MUTATIONS
ALPHA-AMANITIN-RESISTANT RNA POLYMERASE II 2729
SOPHOROSIDES
ACETYLTRANSFERASE FROM C. BOGORIENSIS 424
ACETYL- AND CARBOXYLESTERASES FROM C. BOGORIENSIS 431
SORBITOL
BOVINE LENS ALDOSE REDUCTASE, PHYSICAL, KINETIC PROPERTIES 2696
INSULIN RELEASE METABOLISM OF GLUCOSE ANOMERS IN ISLETS 5936
SORBOSE 6-PHOSPHATE
THE FRUCTOSE 6-PHOSPHATE SITE OF PHOSPHOFRUCTOKINASE 2983
SOYBEAN INHIBITOR
SEE ALSO TRYPSIN
SOYBEANS
LEGHEMOGLOBIN AND ITS COMPLEXES WITH NICOTINATE AND ACETATE 6490
SPECTRIN
PHOTOACTIVATED CROSS-LINKING OF MEMBRANE PROTEINS 7413
SPECTROMETRY
SEE ALSO FLUORESCENCE
SEE ALSO MASS SPECTROMETRY
SEE ALSO STOPPED FLOW
CLEAVAGE OF PHYCOCYANOBILIN FROM C-PHYCOCYANIN 2405
SPECTROMETRY, MASS
A PH-DEPENDENT STOICHIOMETRY WITH HORSERADISH PEROXIDASE 6043
SPECTROSCOPY
HYDROGEN EXCHANGE IN REDUCED PYRIDINE NUCLEOTIDES 1785
SPERM
SEE ALSO SPERMATOZOA
CELLULAR ACTION OF A23187--(SPERM+ CALCIUM TRANSPORT) 3881
DYNEIN 2 ATPASE FROM SEA URCHIN SPERM FLAGELLA 5793
SPERM WHALE
MYOGLOBIN WITH 13C IN METHIONINE METHYLS 7452
SPERMATOZOA
ADENINE NUCLEOTIDE LEVELS OF SPERM 787
TESTICULAR PROTEIN KINASES 914
CORRECTION TO YANG + SRIVASTAVA VOL. 250 (1975) P.79 1531
GUANYLATE CYCLASE PURIFICATION 4671
SPERMIDINE
SEE ALSO POLYAMINES
EFFECT OF METALS ON ESCHERICHIA COLI ARGINYL-TRNA SYNTHETASE 241
MODE OF ACTION OF CYCLIC GMP ON PROTEIN KINASE 1481
POLYAMINE TRANSPORT IN MAMMARY GLAND 2795
STABILIZATION OF RNA BY POLY(A)-INDUCED INHIBITION OF RNASE 3287
BIOSYNTHESIS OF ORNITHINE DECARBOXYLASE 4436
POLYNUCLEOTIDE INHIBITION OF HUMAN LIVER RIBONUCLEASE 5745
POLYAMINES AND TRNA NUCLEOTIDYLTRANSFERASE 6646
SPERMINE
MODE OF ACTION OF CYCLIC GMP ON PROTEIN KINASE 1481
POLYAMINE TRANSPORT IN MAMMARY GLAND 2795
BIOSYNTHESIS OF ORNITHINE DECARBOXYLASE 4436
POLYAMINES AND TRNA NUCLEOTIDYLTRANSFERASE 6646
SPHINGANINE KINASE
SPHINGANINE KINASE OF BRAIN 4557
SPHINGOLIPIDS
SEE ALSO GLYCOSPHINGOLIPIDS
SEE ALSO PHOSPHOLIPIDS
ACTIVATOR STIMULATING THE ENZYMIC HYDROLYSIS OF GLYCOLIPIDS 1159
MECHANISM OF 3-KETOSPHINGANINE SYNTHETASE 1597
STEREOSPECIFICITY IN SPHINGANINE 1-PHOSPHATE LYASE REACTION 4448
SPHINGANINE KINASE OF BRAIN 4557
GANGLIOSIDE BIOSYNTHESIS IN N841A MOUSE NEUROBLASTOMA CELLS 7626
SPHINGOMYELIN
SEE ALSO CERAMIDES
SEE ALSO PHOSPHOLIPIDS
SPHINGOSINE
SEE ALSO GLYCOSPHINGOLIPIDS
STRUCTURING OF GANGLIOSIDE AGGREGATES 7083
SPIN LABELLING
ROLE OF PHOSPHOLIPIDS IN THE CALCIUM-DEPENDENT ATPASE 4224
CORRECTION TO HIDALGO ET AL VOL. 251 (1976) P. 4224 6160
SPIN LABELS
CONFORMATIONAL CHANGE IN TRNA-PHE UPON AMINOACYLATION 1529
THE MM*DP COMPLEX WITH MYOSIN SUBFRAGMENT 1 1975
LOCATION OF SUBSTRATE SITE OF SUCCINATE DEHYDROGENASE 2369
SPIN LABEL STUDIES ON APOHEMOGLOBIN 6838
EFFECTS OF SPIN-LABELED STEARATES ON ADENYLATE CYCLASE 7431
CALCIUM BINDING TO TROPONIN C 7551
SPIN LATTICE RELAXATION TIMES
SEE ALSO NUCLEAR MAGNETIC RESONANCE
SPIN STATE
MERCURIAL BINDING TO HEMOGLOBIN 461
PHOSPHATE BINDING TO HEMOGLOBIN 467
TEMPERATURE EFFECTS ON ADRENAL CORTICAL CYT P-450SCC 7120
SPIN-LABELED TRNA
CONFORMATIONAL CHANGE IN TRNA-PHE UPON AMINOACYLATION 1529
SPINAL CORD
SEE ALSO NERVES
SPIROCHAETA AURANTIA
SUGAR TRANSPORT AND TRANSPHOSPHORYLATION SYSTEM 3834
SPLEEN
DIFFERENTIATION OF LYMPHOID CELLS 2469
CATHEPSIN D FROM PORCINE SPLEEN 4528
HUMAN SPLEEN RIBONUCLEASE PURIFICAITON BY IMMUNOABSORPTION 5752
SPORES
HETEROCYST AND SPORE POLYSACCHARIDES 2967
SPECIFIC SPORE PROTEASE FROM B. MEGATERIUM 7853
SPORULATION
GLYCOPROTEIN OF EIMERIA TENELLA OOCYSTS 382
CONDITIONAL SPORE CORTEX-LESS MUTANTS OF B. SPHAERICUS 1493
CORRECTION TO IMAE AND STROMINGER VOL. 251 (1976) P. 1493 3839
SPOT
ROOT EFFECT HEMOGLOBIN OF A MARINE FISH 1871
SQUALENE
STEROL CARRIER PROTEIN 5496
SQUALENE EPOXIDASE
SUPERNATANT PROTEIN AND SQUALENE EPOXIDASE 5155
SQUID
SQUID BRAIN MYOSIN 7682
STAPHYLOCOCCUS AUREUS
CARBOHYDRATE UPTAKE IN GRAM POSITIVE BACTERIA 893
PHOSPHOLIPID ACTIVATION OF A PURIFIED MEMBRANE ENZYME 1264
TRYPSIN-SUSCEPTIBLE PEPTIDE BONDS IN ENTEROTOXIN C 5580
STARVATION
SITE OF RIBOSOME DEGRADATION IN STARVED ESCHERICHIA COLI 1147
MECHANISM OF REGULATION OF OMEGA-OXIDATION OF FATTY ACIDS 5259
STEARATE
SEE ALSO FATTY ACIDS
EFFECTS OF SPIN-LABELED STEARATES ON ADENYLATE CYCLASE 7431
UNSATURATED FATTY ACID SYNTHESIS IN TETRAHYMENA 7588
STEARYL CO A DESATURASE
MECHANISM OF RAT LIVER MICROSOMAL STEARYL-CO A DESATURASE 5095
ACYL-CO A DESATURASE OF ADIPOSE TISSUE AND LIVER 7468
STEREOCHEMISTRY
MECHANISM OF OXALACETATE DECARBOXYLASE 69
STEREOSPECIFICITY IN SPHINGANINE 1-PHOSPHATE LYASE REACTION 4448
STEROID HYDROXYLASE
15-BETA-HYDROXYLASE SYSTEM IN BACILLUS MEGATERIUM 2831
HETEROGENEITY OF CYTOCHROME P-450 IN RAT TESTIS MICROSOMES 2839
ADRENODOXIN REDUCTASE INTERACTION WITH PYRIDINE NUCLEOTIDES 4299
ADRENAL MITOCHONDRIAL P 450 6068
ADRENODOXIN REDUCTASE ADRENODOXIN 1 1 COMPLEX+ PROPERTIES 7545
STEROID REDUCTASE
5-ALPHA-REDUCTASE IN FIBROBLASTS 5895
STEROIDS
SEE ALSO ANDROGENS
SEE ALSO CHOLESTEROL
SEE ALSO CORTICOSTEROIDS
SEE ALSO ESTROGENS
SEE ALSO VITAMIN D
RECEPTOR-STEROID COMPLEX INTERACTIONS WITH ACCEPTOR SITES 334
NUCLEAR ESTROGEN RECEPTOR AND INITIATION OF RNA SYNTHESIS 516
PLACENTAL 3BETA-OH-STEROID DEHYDROGENASE DELTA-5 ISOMERASE 1632
ADRENAL CLEAVAGE OF A 20-PHENYL ANALOG OF CHOLESTEROL 2087
BILE ALCOHOL METABOLISM IN RABBIT LIVER 2709
RESPONSE TO ACTH ANALOGS OF ADRENAL MEMBRANES AND CELLS 3576
CONTROL OF ALPHA 2U GLOBULIN MRNA BY SEX HORMONES 3594
ANDROGEN RECEPTORS IN RAT BRAIN 4047
MECHANISM OF RECEPTOR ACTIVATION 4758
CORTICOSTEROID-BINDING PROTEINS IN COLOSTRUM AND MILK 5272
PROGESTERONE BINDING BY RABBIT AND GUINEA PIG UTERINE NUCLEI 5607
STIMULATION OF PROSTAGLANDIN SYNTHESIS 5814
5-ALPHA-REDUCTASE IN FIBROBLASTS 5895
AMINOACYL-TRANSFER RNA CONFORMATION 6730
STEROIDOGENESIS, C-17,20 AND C-20, 22 SIDE CHAIN CLEAVAGE 7336
STEROL CARRIER PROTEINS
STEROL CARRIER PROTEIN 5496

STEROLS
SEE ALSO CHOLESTEROL
SEE ALSO VITAMIN D
LIPID COMPOSITION OF OCHROMONAS DANICA FLAGELLAR MEMBRANE 1835
NON-STEROL METABOLISM OF MEVALONATE 2716
MAMMALIAN MEMBRANES WITH ALTERED PHOSPHOLIPID COMPOSITION 5015
STEROL CARRIER PROTEIN 5496
METHYL STEROL OXIDASE 6638

STOMACH
DISTRIBUTION OF NEUROTENSIN 7045

STOPPED FLOW
SEE ALSO KINETICS
CHYMOTRYPSIN DIMERIZATION 498
KINETICS OF INDUCER BINDING TO LAC REPRESSOR PROTEIN 1171
PHOSPHORYL ALKALINE PHOSPHATASES 1202
FLAVIN-OXYGEN DERIVATIVES IN FLAVOENZYME HYDROXYLATION 2550
RATE-LIMITING STEPS FOR ALDEHYDE DEHYDROGENASE REACTIONS 3853
CYTOCHROME P 450 REDUCTION 4610
1-ELECTRON REDOX REACTIONS BY FAST PULSE CYT-C/FERRICYANIDE 4336
CARBAMATE IN GLYCYLGLYCINE PLASMA AND TISSUE EXTRACTS 4398
A PH-DEPENDENT STOICHIOMETRY WITH HORSERADISH PEROXIDASE 6043
P-OH-BENZOATE HYDROXYLASE MECHANISM WITH P-MERCAPTOBENZOATE 7367

STOPPED FLOW-UV SPECTROSCOPY
HYDROGEN EXCHANGE IN REDUCED PYRIDINE NUCLEOTIDES 1785

STREPTOCOCCUS
PRIMARY STRUCTURE OF STREPTOCOCCAL PROTEINASE. I 1941
PRIMARY STRUCTURE OF STREPTOCOCCAL PROTEINASE. II 1948
THE PRIMARY STRUCUTRE OF STREPTOCOCCAL PROTEINASE. III 1955

STREPTOCOCCUS FAECALIS
TRANSLATION SPECTIFICITY OF BACTERIAL RIBOSOMES AND MRNA 2499
FOLATE-DEPENDENT RIBOTHYMIDINE BIOSYNTHESIS 7849

STREPTOKINASE
STREPTOKINASE FRAGMENTS 3913
FUNCTIONAL PLASMIN LIGHT CHAIN-STREPTOKINASE COMPLEX 5810
HUMAN PLASMINOGEN-STREPTOKINASE ACTIVATOR 6495
ACTIVATION OF OOG PLASMINOGEN BY STPEPTOKINASE 6624

STREPTOMYCES GRISEUS
PRONASE CARBOXYPEPTIDASE 284

STRINGENT CONTROL
STRINGENT CONTROL OF ELONGATION FACTORS 898
SYNTHESIS OF RIBOSOMAL PROTEINS L7L12 5516

STRONGYLOCENTRUS PURPURATUS
SEE ALSO SEA URCHINS

STRONTIUM
A23187 INCREASES POTASSIUM PERMEABILITY OF ERYTHROCYTES 3489
ROLE OF GAMMA-CARBOXYGLUTAMIC ACID 6886
EPIDERMAL TRANSGLUTAMINASE 7281

STRUCTURE, ELECTRONIC
ELECTRONIC STRUCTURE AND BONDING IN AMINO ACIDS 5992

STYRENE OXIDE
CONTROL OF MONOOXYGENASE AND EPOXIDE HYDRATASE 79

SUBMAXILLARY GLAND
ESTEROPEPTIDASES OF NERVE AND EPIDERMAL GROWTH FACTORS 165
A MODIFICATION WHICH AFFECTS THE STABILITY OF MNW-EGF 1188

SUBTILISIN
ACYLATION OF SUBTILISIN CARLSBERG BY PHENYL ESTERS 1606
HALOMETHYL KETONES FORM TETRAHEDRAL ADDUCTS WITH SUBTILISIN 1697

SUBUNIT DISSOCIATION
SUBUNIT DISSOCIATION IN FISH HEMOGLOBINS 7632

SUBUNITS, PROTEIN
SEE ALSO PROTEIN, SUBUNITS

SUCCINATE
RAT LIVER MITOCHONDRIAL ALDEHYDE DEHYDROGENASE 1571
REGULATION OF ACETATE KINASE BY SUCCINATE AND SUBSTRATES 3117
FILTER ASSAY TO ESTIMATE WEAK LIGAND BINDING TO ATCASE 5986

SUCCINATE DEHYDROGENASE
THERMODYNAMICS + EPR CHARACTERISTICS OF FE-S CENTERS OF SDH 2094
A HIPIP-TYPE IRON-SULFUR CENTER IN SUCCINATE DEHYDROGENASE 2105
BIOCHEMICAL AND ULTRASTRUCTURE CHANGES IN B12 DEFICIENCY 2147
LOCATION OF SUBSTRATE SITE OF SUCCINATE DEHYDROGENASE 2369

SUCCINATE-CYTOCHROME C REDUCTASE
EUKARYOTIC CYTOCHROMES C REACTIONS WITH MITOCHONDRIAL ENZYME 1104

SUCCINATE-UBIQUINONE REDUCTASE
THERMODYNAMICS + EPR CHARACTERISTICS OF FE-S CENTERS OF SDH 2094

SUCCINIC ANHYDRIDE
SUBUNIT STRUCTURE OF AMP-DEAMINASE 1847

SUCCINYL CO A
MECHANISM OF SUCCINYL-CO A 3-KETOACID COENZYME A TRANSFERASE 1688
INACTIVATION OF COENZYME A TRANSFERASE BY THIOL REAGENTS 1708

SUCCINYL CO A 3-KETOACID CO A TRANSFERASE
MECHANISM OF SUCCINYL-CO A 3-KETOACID COENZYME A TRANSFERASE 1688
INACTIVATION OF COENZYME A TRANSFERASE BY THIOL REAGENTS 1708
PROPERTIES OF SUCCINYL CO A 3-KETOACID CO A TRANSFERASE 1708

SUCCINYLATION
HYBRIDIZATION OF CONCANAVALIN A SUBUNITS 4622

SUCRASE
AA SEQUENCE OF ACTIVE SITE PEPTIDES FROM SUCRASE-ISOMALTASE 3250

SUGAR PHOSPHOTRANSFERASE SYSTEM
SUGAR TRANSPORT AND TRANSPHOSPHORYLATION SYSTEM 3834

SUGARS
SEE ALSO GLYCOPROTEINS

SULFATASE
ENDO-BETA-GALACTOSIDASE HYDROLYSIS OF COMPLEX CARBOHYDRATES 6218

SULFATE
IN VIVO METABOLISM OF 4-DEOXYPYRIDOXINE IN RAT + MAN 1646
METAL(II) ION, ANION EFFECTS ON P-ENOLPYRUVATE CARBOXYKINASE 2916
STIMULATION OF PROTEOGLYCAN SYNTHESIS BY SERUM FACTORS 3763
STEADY-STATE KINETICS OF PENICILLIUM ATP SULFURYLASE 4389
RAT LIVER N-HYDROXY-2-ACETYLAMINOFLUORENE SULFOTRANSFERASE 6529

SULFATION FACTORS
STIMULATION OF PROTEOGLYCAN SYNTHESIS BY SERUM FACTORS 3763

SULFHYDRYLS
SEE ALSO GLUTATHIONE
SULFHYDRYL AGENTS AND FAT CELL HEXOSE TRANSPORT 1164
ACTIVE TRANSPORT OF AMINO ACIDS IN MYCOBACTERIUM PHLEI 2493
METAL(II) ION, ANION EFFECTS ON P-ENOLPYRUVATE CARBOXYKINASE 2916
VITAMIN K-DEPENDENT CARBOXYLATION 3269
IMPERMEANT MALEIMIDES AND ERYTHROCYTE MEMBRANE PROTEINS 7176
EXOFACIAL COMPONENT OF ERYTHROCYTE HEXOSE TRANSPORT 7184

SULFHYDRYLS (IN PROTEINS)
SEE ALSO CYSTEINE (IN PROTEINS)
SEE ALSO DISULFIDES
SEE ALSO PROTEIN, SUBUNITS
DISULFIDE BOND-MODIFIED TRYPSINOGEN 222
LIVER PURINE NUCLEOSIDE PHOSPHORYLASE 487
MERCURIAL BINDING TO HEMOGLOBIN 641
ANTHRANILATE SYNTHETASE 941
ACTIVE SITE OF RIBONUCLEOSIDE DIPHOSPHATE REDUCTASE 1398
INACTIVATION OF COENZYME A TRANSFERASE BY THIOL REAGENTS 1708
PRIMARY STRUCTURE OF STREPTOCOCCAL PROTEINASE. I 1941
LOCATION OF SUBSTRATE SITE OF SUCCINATE DEHYDROGENASE 2369
INTERACTIONS BETWEEN TRYPTOPHANASE PROTOMERS 2814
FOLDING PATHWAY OF REDUCED LYSOZYME 3147
REQUIRED THIOL GROUP AND SEQUENCES OF THIOL PEPTIDES 3254
THIOL PEPTIDES OF HUMAN TRYPTOPHANYL-TRNA SYNTHETASE 3261
GLUTAMINE-DEPENDENT GLUTAMATE SYNTHASE 3294
ASPARAGUSATE DEHYDROGENASES AND LIPOYL DEHYDROGENASE 3637
PH-DEPENDENT PROPERTIES OF HUMAN CARBONIC ANHYDRASE B 3862
OXIDATION-REDUCTION POTENTIALS OF LIPOAMIDE DEHYDROGENASE 3956
ENZYMOLOGICAL STUDIES ON HEREDITARY AVIAN DYSTROPHY 4468
CATALYTIC FRAGMENT OF CYCLIC GMP-DEPENDENT PROTEIN KINASE 4476
AFFINITY LABELING OF PHOSPHOGLYCERATE MUTASE 4565
REFOLDING OF REDUCED BOVINE SERUM ALBUMIN 4603
ANTIGENIC STRUCTURE OF SERUM ALBUMIN 4616
THIOL GROUP AND FE+++ REQUIREMENT FOR UTERINE PHOSPHATASE 4688
HYSTERETIC KINETICS OF ERYTHROCYTE PYRUVATE KINASE 5600
SUBUNIT COMPOSITION OF ISOLATED HAPTOGLOBIN 2-1 POLYMERS 5845
MITOCHONDRIAL CARNITINE ACYCARNITINE TRANSLOCASE 6643
A STUDY OF RENATURATION OF REDUCED HEN EGG WHITE LYSOZYME 6934
A COVALENT FLAVIN ADDUCT IN LIPOAMIDE DEHYDROGENASE 7726

SULFIDE
REACTION MECHANISM FOR O-ACETYLSERINE SULFHYDRYLASE 2023
NITRATE REDUCTASE FROM ESCHERICHIA COLI 2287

SULFITE OXIDASE
EPR OF TUNGSTEN-CONTAINING SULFITE OXIDASE 5585

SULFOCYSTEINE
COMPLETE AMINO ACID ANALYSIS OF PROTEINS 1936

SULFOLIPIDS
OCHROMONAS FLAGELLAR MEMBRANE ISOLATION AND CHARACTERIZATION 1828
LIPID COMPOSITION OF OCHROMONAS DANICA FLAGELLAR MEMBRANE 1835

SULFOTRANSFERASES
RAT LIVER N-HYDROXY-2-ACETYLAMINOFLUORENE SULFOTRANSFERASE 6529

SULFUR
SEE ALSO IRON-SULFUR PROTEINS

SUPEROXIDE
PHENYLHYDRAZINE, HEMOGLOBIN AND SUPEROXIDE GENERATION 3845
NICOTINAMIDE ADENINE DINUCLEOTIDE OXIDATION BY SUPEROXIDE 3841
SUPEROXIDE ANION AND DRUG INDUCED HEMOLYSIS 6468
SUPEROXIDE DECAY AND DIRECT ASSAY FOR SUPEROXIDE DISMUTASE 7584

SUPEROXIDE DISMUTASE
SUPEROXIDE MEDIATED METHEMOGLOBIN FORMATION 1615
REVERSIBLE RESOLUTION OF A MANGANIC SUPEROXIDE DISMUTASE 1217
INHIBITION OF SUPEROXIDE DISMUTASE IN VIVO 2182
PURIFICATION OF HUMAN ERYTHROCYTE ADENOSINE DEAMINASE 4626
PRELIMINARY CRYSTAL DATA OF IRON-SUPEROXIDE DISMUTASE 4792
CORRECTION TO OSE AND FRIDOVICH VOL. 251 (1976) P. 1217 4796
IRON SUPEROXIDE DISMUTASE FROM E. COLI 5472
EVIDENCE FOR MN(III) BINDING TO MANGANOSUPEROXIDE DISMUTASE 6157
SUPEROXIDE DECAY AND DIRECT ASSAY FOR SUPEROXIDE DISMUTASE 7584

SURFACE ANTIGEN
HOMOLOGY OF PULMONARY ANGIOTENSIN-CONVERTING ENZYMES 4828

SURFACES, CELL
SEE ALSO LECTINS
SEE ALSO MEMBRANES
SEE ALSO RECEPTORS
SEE ALSO RECEPTORS, HORMONAL
SEE ALSO WALLS, CELL
SURFACE ALTERATIONS IN PERIODATE-OXIDIZED LYMPHOCYTES 1864

SURFACTANTS
THE INFLUENCE OF HLB AND CMC ON DISRUPTION OF MEMBRANES 4462

SV-40 VIRUS
GROUP TRANSLOCATION OF INOSINE RIBOSE MOIETY BY SV-3T3 CELLS 344
INTERACTION OF HISTONE F1 WITH SUPERHELICAL DNA 2334
H5 HISTONE AND DNA-RELAXING ENZYME OF CHICKEN ERYTHROCYTES 7363

SV40-TRANSFORMED 3T3 CELLS
PROTEIN KINASE IN THE OUTER MEMBRANE OF 3T3 AND SV3T3 CELLS 7899

SVT2 CELLS
NUCLEAR LOCATION OF MAMMALIAN DNA POLYMERASE ACTIVITIES 7893

SYNAPSES
SEE ALSO BRAIN
STRUCTURING OF GANGLIOSIDE AGGREGATES 7083
NEUROTOXIC PHOSPHOLIPASE A SEQUENCE 7343

SYNCHRONIZED CELLS
SEE ALSO CELL CYCLE

T

TACHYPHYLAXIS
REFRACTORINESS BY ISOPROTERENOL IN MUTANT CELLS 7572

TADPOLES
DNA SYNTHESIS AND TURNOVER DURING TADPOLE METAMORPHOSIS 4111
O2 BINDING + SUBUNIT DISSOCIATION OF TADPOLE HEMOGLOBINS 4254

TAGATOSE 6-PHOSPHATE
THE FRUCTOSE 6-PHOSPHATE SITE OF PHOSPHOFRUCTOKINASE 2983

TASTE
BIOCHEMISTRY OF TASTE. STIMULUS BINDING TO RECEPTORS 88

TAURINE
FATTY ACID SYNTHETASE 3194

TAURODEOXYCHOLATE
COFACTOR EFFECTS ON PROPERTIES OF LIPASE B AT AN INTERFACE 378
MECHANISM OF ACTION OF COFACTORS ON LIPASE B ACTIVITY 384

TBG
SEE ALSO THYROXINE-BINDING GLOBULIN

TEICHOIC ACIDS
PURIFICATION OF THE PNEUMOCOCCAL AUTOLYSIN (AMIDASE) 4199

TEMPERATURE
BINDING OF SUBSTRATES TO RIBONUCLEOTIDE REDUCTASE 3616
CYTOCHROME P 450 REDUCTION 4610
ROLE OF PHOSPHOLIPIDS IN THE CALCIUM-DEPENDENT ATPASE 4224
O2 BINDING + SUBUNIT DISSOCIATION OF TADPOLE HEMOGLOBINS 4254
THYROTROPIN RECEPTORS IN THYROID PLASMA MEMBRANES 4693
EFFECT OF ESTROGEN ON GENE EXPRESSION IN THE CHICK OVIDUCT 5565
CORRECTION TO HIDALGO ET AL VOL. 251 (1976) P. 4224 6160
EFFECT OF LIPIDS ON RECONSTITUTION OF MEMBRANE VESICLES 6662
CHARACTERISTIC TEMPERATURES OF LM CELL MEMBRANES 6739
TEMPERATURE EFFECTS ON ADRENAL CORTICAL CYT P-450SCC 7128

TERMINAL DEOXYNUCLEOTIDYLTRANSFERASE
SEROLOGY OF TERMINAL DEOXYNUCLEOTIDYLTRANSFERASE 2399

TESTES
TESTICULAR PROTEIN KINASES 914
ASSAY OF TROUT TESTIS PROTAMINE MRNA 1446
HETEROGENEITY OF CYTOCHROME P-45E IN RAT TESTIS MICROSOMES 2839
ANDROGEN BIOSYNTHESIS FROM C-28 DEOXY-C-21 STEROID 3328
FOLLITROPIN RECEPTOR INTERACTION 3326
CYSTEINE-CONTAINING H2B-LIKE HISTONE IN MAMMALIAN TESTIS 4155
BINDING PROPERTIES OF ANDROGEN RECEPTORS 5628

TESTOSTERONE
MULTIPLE FORMS OF RAT LIVER CYTOCHROME P 450 1385
KINETIC PROPERTIES OF HUMAN PLACENTAL AROMATASE 1625
ANDROGEN BIOSYNTHESIS FROM C-28 DEOXY-C-21 STEROID 3328
ANDROGEN RECEPTORS IN RAT BRAIN 4847
BINDING PROPERTIES OF ANDROGEN RECEPTORS 5628

TETRACAINE
EFFECTS OF SODIUM AZIDE ON RENAL CORTICAL CGMP 4651
TETRACHLORODIBENZO-P-DIOXIN
DE NOVO PROTEIN SYNTHESIS OF CYTOCHROME P 450 1817
STEREOSPECIFIC BINDING TO TCDD BY HEPATIC CYTOSOL 4936
TETRAHYDROBIOPTERIN
PHOSPHORYLATION OF PHENYLALANINE HYDROXYLASE 5310
TETRAHYDROCANNABINOL
DELTA-9-TETRAHYDROCANNABINOL AND NADH-OXIDASE 5602
TETRAHYDROFOLATE
SEE ALSO FOLATE
TERNARY COMPLEXES OF THYMIDYLATE SYNTHETASE 1303
TRANSPORT AND UTILIZATION OF METHYLTETRAHYDROFOLATES 3405
ANALYSIS OF FOLATE DERIVATIVES IN MOUSE L1210 CELLS 3569
PURIFICATION OF KETOPANTOATE HYDROXYMETHYLTRANSFERASE 3780
PROPERTIES OF KETOPANTOATE HYDROXYMETHYLTRANSFERASE 3786
ON THE MECHANISM OF FORMYLTETRAHYDROFOLATE SYNTHETASE 4159
A MAMMALIAN PROTEIN WITH MULTIPLE CATALYTIC ACTIVITIES 5104
FOLATE-DEPENDENT RIBOTHYMIDINE BIOSYNTHESIS 7649
TETRAHYMENA PYRIFORMIS
UNSATURATED FATTY ACID SYNTHESIS IN TETRAHYMENA 7588
TETRAIODOFLUORESCEIN
TETRAIODOFLUORESCEIN WITH YEAST HEXOKINASE 7157
TETRANITROMETHANE
PROTEIN AND PEPTIDE HORMONE REACTIONS WITH TETRANITROMETHANE 308
TYROSINE RESIDUES IN PORCINE MUSCLE ADENYLATE KINASE 3021
TETRATHIONATE
COMPLETE AMINO ACID ANALYSIS OF PROTEINS 1936
TETRODOTOXIN
PURIFICATION OF A TOXIC PROTEIN FROM SCORPION VENOM 5528
THEOPHYLLINE
AMINO ACID RELEASE IN SKELETAL MUSCLE 851
THERMODYNAMICS
RECOMMENDATIONS FOR PRESENTING BIOCHEMICAL EQUILIBRIUM DATA 6879
ADRENODOXIN REDUCTASE ADRENODOXIN 1 1 COMPLEX+ PROPERTIES 7545
THERMOPHILIC BACTERIA
B. SUBTILIS AND B. STEAROTHERMOPHILUS 5S RNAS 3122
ALKALINE PHOSPHATASE FROM THERMUS AQUATICUS 3134
THERMUS AQUATICUS
ALKALINE PHOSPHATASE FROM THERMUS AQUATICUS 3134
THIAMIN
CARBON-13 MAGNETIC RESONANCE STUDIES OF HYDROXYETHYLTHIAMIN 2564
THIAMIN DEHYDROGENASE
FLAVIN COENZYME OF THIAMIN DEHYDROGENASE 5386
THIAMIN PYROPHOSPHATE
DEAZAFAD-GLYOXALATE CARBOLIGASE 329
ANALOGS OF THIAMIN PYROPHOSPHATE TRANSITION STATES 2863
THIAMIN TRIPHOSPHATASE
THIAMIN TRIPHOSPHATASE AND DIVALENT CATIONS 193
THIAZOLIDINE RINGS
DEGRADATION OF PENILILLIN G BY D-ALANINE CARBOXYPEPTIDASE 7947
THIAZOLIUM COMPOUNDS
CARBON-13 MAGNETIC RESONANCE STUDIES OF HYDROXYETHYLTHIAMIN 2564
THIO-NAD
ASCARIS NADH NAD-PLUS TRANSHYDROGENASE 2217
THIOCYANATE
CHROMAFFIN GRANULE MEMBRANE POTENTIAL 4544
THIOCYANATE ESTERS
A MECHANISM FOR THE GLUTATHIONE TRANSFERASES 6183
THIODIGALACTOSIDES
THIODIGALACTOSIDE BINDNG TO ESCHERICHIA COLI M PROTEIN 6735
THIOETHERS
MECHANISM OF ACTION OF S-ADENOSYLHOMOCYSTEINASE 5817
A MECHANISM FOR THE GLUTATHIONE TRANSFERASES 6183
THIOL-BASE PAIR
OXIDATION-REDUCTION POTENTIALS OF LIPOAMIDE DEHYDROGENASE 3956
THIOLESTERASE
ACETYL- AND CARBOXYLESTERASES FROM C. BOGORIENSIS 431
THIOLS
SEE ALSO ACETYL CO A
SEE ALSO COENZYME A
SEE ALSO SUCCINYL CO A
SEE ALSO SULFHYDRYLS
THIOSTREPTON
ELONGATION FACTOR G BINDING TO THE RIBOSOME 1795
THREONINE (IN PROTEINS)
SEE ALSO GLYCOPROTEINS
MICROHETEROGENEITY OF MYELIN BASIC PROTEIN 2671
THROMBIN
SEE ALSO CLOTTING, BLOOD
PROSTAGLANDIN BIOSYNTHESIS AND VASOACTIVE SUBSTANCES 776
THROMBIN-LIKE ENZYME FROM BOTHROPS ATROX VENOM 1663
MECHANISM OF THROMBIN-MEDIATED BURST IN O2 USE BY PLATELETS 2536
MECHANISM OF ACTIVATION OF BOVINE FACTOR VII 4797
STIMULATION OF PROSTAGLANDIN SYNTHESIS 5814
MN-PROTHROMBIN INTERACTIONS 6294
CYCLIC NUCLEOTIDE PHOSPHODIESTERASE SECRETION FROM PLATELETS 7588
THYLAKOIDS
SEE ALSO CHLOROPLASTS
THYMIDINE
HERPES VIRUS-INDUCED INCORPORATION OF AIDURD INTO DNA 4833
FOLATE-DEPENDENT RIBOTHYMIDINE BIOSYNTHESIS 7649
THYMIDINE KINASE
MITOCHONDRIAL DNA SYNTHESIS IN MOUSE L-CELLS 2938
BIOCHEMICAL PROPERTIES OF IODO-AMINO-DEOXY UTP 4839
THYMIDYLATE KINASE
UV SENSITIZATION OF DTMP KINASE BY HALOGENATED ANALOGS 6555
THYMIDYLATE SYNTHETASE
TERNARY COMPLEXES OF THYMIDYLATE SYNTHETASE 1303
MITOCHONDRIAL DNA SYNTHESIS IN MOUSE L-CELLS 2938
FOLATE-DEPENDENT RIBOTHYMIDINE BIOSYNTHESIS 7649
THYMOCYTES
THYROID HORMONE ANALOGUES IN THYMOCYTES 4233
AMINO ACID TRANSPORT IN THYMOCYTES 6030
THYMUS
NUCLEIC ACID HELIX-UNWINDING PROTEINS FROM CALF THYMUS 2124
NUCLEIC ACID MELTING BY CALF UNWINDING PROTEINS 2133
CALF UNWINDING PROTEINS AND DNA POLYMERASE-ALPHA TEMPLATE 2142
THYROID HORMONE ANALOGUES IN THYMOCYTES 4233
COMPARISON OF OLIGOSACCHARIDE-LIPIDS FROM SEVERAL TISSUES 6420
GLUCOCORTICOID ACTION ON ATP PRODUCTION IN THYMIC LYMPHOCYTE 7295
THYROGLOBULIN
FORMATION OF LIPID-SACCHARIDE INTERMEDIATE BY THYROID SLICES 6400
THYROID
THYROID PEROXIDASE AND NONIONIC DETERGENTS 2525
THYROID HORMONE ANALOGUES IN THYMOCYTES 4233
THYROID HORMONES AND BRAIN FATTY ACID ALPHA HYDROXYLATION 5237
FORMATION OF LIPID-SACCHARIDE INTERMEDIATE BY THYROID SLICES 6400
STRUCTURE OF A THYROID OLIGOSACCHARIDE-LIPID INTERMEDIATE 6409
COMPARISON OF OLIGOSACCHARIDE-LIPIDS FROM SEVERAL TISSUES 6420
DEPENDENCE OF (NA+, K+)ATPASE ON THYROID 7826
THYROID CELLS
PHOSPHOFRUCTOKINASE REGULATION IN A THYROID TUMOR 6244
THYROID CELL REFRACTORINESS TO TSH STIMULATION 6653
THYROID HORMONES
SEE ALSO THYROXINE
SEE ALSO TRIIODOTHYRONINE
BINDING OF THYROID HORMONES TO THYROXINE-BINDING GLOBULIN 3558
EFFECT OF T3 ON (NA+, K+)ATPASE SYNTHESIS 7834
THYROID PEROXIDASE
THYROID PEROXIDASE AND NONIONIC DETERGENTS 2525
THYROID STIMULATING HORMONE
TRH METABOLISM BY HAMSTER HYPOTHALAMUS 3229
TSH BINDING TO BEEF THYROID MEMBRANES 4247
THYROTROPIN RECEPTORS IN THYROID PLASMA MEMBRANES 4693
REDUCTION OF DISULFIDES IN GLYCOPROTEIN HORMONES 6388
REDUCTION AND REOXIDATION OF DISULFIDES OF LH ALPHA 6392
THYROID CELL REFRACTORINESS TO TSH STIMULATION 6653
THYROID TUMOR
PHOSPHOFRUCTOKINASE REGULATION IN A THYROID TUMOR 6244
THYROTROPIN
SEE ALSO THYROID STIMULATING HORMONE
THYROTROPIN-RELEASING HORMONE
TRH METABOLISM BY HAMSTER HYPOTHALAMUS 3229
THYROXINE
AMINO ACID RELEASE IN SKELETAL MUSCLE 844
BINDING OF THYROID HORMONES TO THYROXINE-BINDING GLOBULIN 3558
THYROID HORMONE ANALOGUES IN THYMOCYTES 4233
THYROXINE-INDUCED CHANGES IN AMPHIBIAN LIVER ORGANELLES 6161
THYROXINE ANALOGUE BINDING TO THYROXINE BINDING GLOBULIN 6489
DNA BINDING OF THYROID HORMONE RECEPTORS 7380
NUCLEAR THYROID HORMONE RECEPTORS 7388
THYROXINE-BINDING GLOBULIN
BINDING OF THYROID HORMONES TO THYROXINE-BINDING GLOBULIN 3558
TISSUE CULTURES
SEE ALSO SPECIFIC CELL TYPE
TOADS
SEE ALSO SPECIES NAME
TOBACCO HORNWORM
M. SEXTA JUVENILE HORMONE CARRIER PROTEIN 4979
TOBACCO MOSAIC VIRUS
WHEAT GERM 80S RIBOSOME METHIONYL-TRNA COMPLEX 6675
TOLUENE
MEMBRANE BOUND PEPTIDOGLYCAN SYNTHETIC PROTEIN B MEGATERIUM 1869
TOMATOES
SPECIFICITY OF PROTEIN TURNOVER IN TOMATO LEAVES 7004
TORPEDO CALIFORNICA
AFFINITY PARTITIONING OF MEMBRANES 858
TOXINS
SEE ALSO BUNGAROTOXIN
SEE ALSO CHOLERA TOXIN
SEE ALSO DIPHTHERIA TOXIN
SEE ALSO NEUROTOXINS
SEE ALSO VENOM
AFFINITY PARTITIONING OF MEMBRANES 858
IRREVERSIBLE INHIBITION OF ASPARTATE AMINOTRANSFERASE 3306
ABRIN AND RICIN BINDING KINETICS WITH HUMAN CELLS 3977
STEPS IN INHIBITION OF PROTEIN SYNTHESIS BY ABRIN AND RICIN 3985
PURIFICATION OF A TOXIC PROTEIN FROM SCORPION VENOM 5528
TRYPSIN-SUSCEPTIBLE PEPTIDE BONDS IN ENTEROTOXIN C 5580
FAT CELL CHOLERA TOXIN RECEPTOR 7610
TOXOPYRIMIDINE
VITAMIN B6 TRANSPORT IN YEAST 1042
TPN
SEE ALSO NADP
TPNH
SEE ALSO NADPH
TRANSALDOLASE
OXIDATION OF TRANSALDOLASE INTERMEDIATE 4220
TRANSAMINASES
SEE ALSO AMINOTRANSFERASES
SEE ALSO SPECIFIC AMINOTRANSFERASE
TRANSCARBOXYLASE
INTERMOLECULR TRITIUM TRANSFER IN TRANSCARBOXYLASE REACTION 902
CIRCULAR DICHROISM OF BIOTIN CARBOXYL CARRIER PROTEIN 2063
IMMUNOCHEMISTRY OF THE SUBUNITS OF TRANSCARBOXYLASE 7621
TRANSCRIPTION
SEE ALSO DNA
SEE ALSO DNA, POLYMERASE
SEE ALSO ENZYMES, REGULATION
SEE ALSO PROTEIN, SYNTHESIS
SEE ALSO RNA
SEE ALSO RNA, POLYMERASE
SEE ALSO RNA, SYNTHESIS
ATPASE REQUIREMENT IN RHO FUNCTION 2520
TRANSFER RNA
SEE ALSO RNA, TRANSFER
TRANSFER RNA SYNTHETASE
SEE ALSO RNA, TRANSFER
TRANSFORMATION
SEE ALSO FIBROBLAST CELLS
SEE ALSO LECTINS
PROTEIN DEGRADATION IN HUMAN FIBROBLASTS 3521
ACYL DIHYDROXYACETONE PHOSPHATE PATHWAY IN BHK FIBROBLASTS 5149
SOLUBILIZATION NORMALIZES ADENYLATE CYCLASE ACTIVITY 7958
TRANSGLUTAMINASE
ACTION OF FIBRIN-STABILIZING FACTOR IN CLOTTING PLASMA 1639
EPIDERMAL TRANSGLUTAMINASE 7281
TRANSHYDROGENASE
ATP-DEPENDENT PROPERTIES OF MITOCHONDRIA 934
ASCARIS NADH NAD-PLUS TRANSHYDROGENASE 2217
TRANSIENT STATE KINETICS
SEE ALSO KINETICS
TRANSIENT-STATE KINETICS
KINETIC EFFECTS OF CALCIUM ON SARCOPLASMIC RETICULUM ATPASE 2387
TRANSITION STATE
HALOMETHYL KETONES FORM TETRAHEDRAL ADDUCTS WITH SUBTILISIN 1097
TRANSITION STATE ANALOGS
STRUCTURE OF CREATINE KINASE-SUBSTRATE COMPLEXES 2777
ANALOGS OF THIAMIN PYROPHOSPHATE TRANSITION STATES 2863
TRANSITION STATE ANALOG OF LYSOZYME CATALYSIS 4338
PEPSTATIN INHIBITION OF ACID PROTEASES 7088
CATALYTIC MECHANISMS OF GLUTAMINE SYNTHETASE ENZYMES 7538
TRANSLATION
SEE ALSO PROTEIN, SYNTHESIS
TRANSPEPTIDASE
SEE ALSO GLUTAMYLTRANSPEPTIDASE
PURIFICATION OF D-ALANINE CARBOXYPEPTIDASES I FROM E. COLI 414
TRANSPHOSPHORYLATION
SEE ALSO GTP
SEE ALSO PHOSPHORYLATION
SUGAR TRANSPORT AND TRANSPHOSPHORYLATION SYSTEM 3834

A NONCLASSICAL TRI UNI UNI PING PONG MECHANISM 7920
TRANSPLANTATION
CHEMICAL ANALYSES OF HLA-ANTIGENS 4214
TRANSPORT, ADP
ADENINE NUCLEOTIDE TRANSPORT 2446
TRANSPORT, AMINO ACIDS
STUDIES OF HUMAN KIDNEY GAMMA-GLUTAMYL TRANSPEPTIDASE 2271
ACTIVE TRANSPORT OF AMINO ACIDS IN MYCOBACTERIUM PHLEI 2493
CORRECTION TO ELSAS ET AL VOL. 250 (1975) P. 9381 2539
INDUCTION OF TRANSPORT IN CULTURED LIVER CELLS BY INSULIN 3614
PROTEIN DEGRADATION IN HUMAN FIBROBLASTS 3521
OPPOSING EFFECTS OF LECTINS ON LYMPHOCYTE ACTIVATION 4017
AMINO ACID TRANSPORT IN THYMOCYTES 6638
TRANSPORT, AMINOISOBUTYRATE
INDUCTION OF TRANSPORT IN CULTURED LIVER CELLS BY INSULIN 3014
TRANSPORT, ANIMAL
GROUP TRANSLOCATION OF INOSINE RIBOSE MOIETY BY SV-3T3 CELLS 344
CHOLINE UPTAKE AND METABOLISM IN BRAIN CELLS IN CULTURE 1392
MEMBRANE PERMEABILITY AND MICROSOMAL GLUCOSE-6-PHOSPHATASE 4901
STIMULATION OF CALCIUM PUMP BY MONOVALENT CATIONS 6947
TRANSPORT, ATP
ADENINE NUCLEOTIDE TRANSPORT 2446
PROTON TRANSLOCATING ATPASE 2453
TRANSPORT, BACTERIAL
ADP-ATP TRANSPORT IN RICKETTSIAE 389
TRANSPORT OF VITAMIN B6 IN S. TYPHIMURIUM 1052
ROLES OF INDIVIDUAL MGL GENE PRODUCTS IN ACTIVE TRANSPORT 3112
TRANSPORT AND UTILIZATION OF METHYLTETRAHYDROFOLATES 3405
OLIGOPEPTIDE TRANSPORT 5380
ATP-DEPENDENT CALCIUM TRANSPORT IN MEMBRANE VESICLES 5614
MUTANTS OF BACTERIAL PHOSPHOTRANSFERASE SYSTEM 6584
THIODIGALACTOSIDE BINDING TO ESCHERICHIA COLI M PROTEIN 6735
TRANSPORT, CALCIUM
24, 25-DIHYDROXYVITAMIN D3 397
TRYPTIC FRAGMENTS OF SARCOPLASMIC RETICULUM ATPASE 712
EFFECTS OF PROTEIN KINASE ON SARCOPLASMIC RETICULUM 725
PROTON-COUPLED CALCIUM TRANSPORT 962
STOICHIOMETRY OF PROTON EJECTION DURING CALCIUM UPTAKE 968
CARBON TETRACHLORIDE AND LIVER MICROSOMAL CALCIUM UPTAKE 1197
PHOSPHOLIPIDS AS IONOPHORES 1326
SIDEDNESS OF MEMBRANE PHOSPHORYLATION DURING ATP SYNTHESIS 1413
ARRANGEMENT OF PROTEINS IN SARCOPLASMIC RETICULUM 2037
ATP SYNTHESIS IN SARCOPLASMIC RETICULUM VESICLES 2055
25-HYDROXYVITAMIN D3-1-ALPHA-HYDROXYLASE 3158
RECONSTITUTION OF A CALCIUM PUMP IN SARCOPLASMIC RETICULUM 3169
NTP PI EXCHANGE IN SARCOPLASMIC RETICULUM VESICLES 3629
CELLULAR ACTION OF A23187--(SPERM+ CALCIUM TRANSPORT) 3881
ETHOXYFORMYLATION OF SARCOPLASMIC RETICULUM VESICLES 4322
CYCLIC GMP IN PANCREATIC ACINAR CELLS 4640
PHOSPHOLIPID-PROTEIN INTERACTION IN CA++ ATPASE 5161
MECHANISM OF ATP HYDROLYSIS BY SARCOPLASMIC RETICULUM 5414
ATP-DEPENDENT CALCIUM TRANSPORT IN MEMBRANE VESICLES 5614
INSULIN RELEASE METABOLISM OF GLUCOSE ANOMERS IN ISLETS 5936
ATPASE OF SARCOPLASMIC RETICULUM 6896
STIMULATION OF CALCIUM PUMP BY MONOVALENT CATIONS 6947
CALCIUM TRANSPORT BY ADIPOCYTE ENDOPLASMIC RETICULUM 7191
RESTORATION OF CALCIUM TRANSPORT ATPASE 7271
CA2+ AFFINITY TO PHOSPHORYLATED SR ATPASE 7275
TRANSPORT, CARBON DIOXIDE
RESONANCES OF 13-CO2 CARBAMINO ADDUCTS OF HEMOGLOBIN 477
TRANSPORT, CATIONS
A23187 INCREASES POTASSIUM PERMEABILITY OF ERYTHROCYTES 3489
TRANSPORT, ELECTRON
SEE ALSO ELECTRON TRANSPORT
TRANSPORT, GLUCOSE
INSULIN ACTION ON METHYLGLUCOSE EXCHANGE IN FAT CELLS 794
SULFHYDRYL AGENTS AND FAT CELL HEXOSE TRANSPORT 1164
ERYTHROCYTE MEMBRANE D-GLUCOSE TRANSPORT PROTEIN 1582
CYTOCHALASIN B BINDING TO FAT CELL PLASMA MEMBRANES 2905
EFFECT OF PYRIDINE DERIVATIVES ON GLUCOSE TRANSPORT 5141
GLUCOSE METABOLISM AND N-CELL FUNCTION IN VITRO 6053
TRANSPORT, HEXOSE
EXOFACIAL COMPONENT OF ERYTHROCYTE HEXOSE TRANSPORT 7184
TRANSPORT, HYPOXANTHINE
HYPOXANTHINE TRANSPORT BY CHINESE HAMSTER FIBROBLASTS 4823
TRANSPORT, ION
SEE ALSO TRANSPORT, CALCIUM
TRYPTIC FRAGMENTS OF SARCOPLASMIC RETICULUM ATPASE 712
STOICHIOMETRY OF PROTON EJECTION DURING CALCIUM UPTAKE 968
NEW INTERMEDIATE IN MECHANISM OF NA + K ATPASE 2186
PURIFICATION OF A TOXIC PROTEIN FROM SCORPION VENOM 5528
ATPASE OF SARCOPLASMIC RETICULUM 6896
STIMULATION OF CALCIUM PUMP BY MONOVALENT CATIONS 6947
A NONELECTROGENIC H+ PUMP IN HOG GASTRIC MEMBRANE 7698
TRANSPORT, MAGNESIUM
PHOSPHOLIPIDS AS IONOPHORES 1326
TRANSPORT, MICROSOMAL
GLUCOSE 6-PHOSPHATE TRANSPORT AND GLUCOSE-6-PHOSPHATASE 6784
TRANSPORT, MITOCHONDRIAL
MITOCHONDRIAL UPTAKE OF HYDROXOCOBALAMIN 6616
TRANSPORT, MITOCHONDRIAL
ADENINE NUCLEOTIDE TRANSPORT 2446
MITOCHONDRIAL CARNITINE ACYLCARNITINE TRANSLOCASE 6683
TRANSPORT, NUCLEOSIDES
UPTAKE OF NUCLEOSIDE RADIOACTIVITY BY L-CELL PLASMA MEMBRANE 1175
ENZYMES INVOLVED IN VESICLE TRANSPORT 1181
TRANSPORT, NUCLEOTIDE
RENAL METABOLISM OF EXOGENOUS CYCLIC AMP AND CYCLIC GMP 4958
TRANSPORT, PEPTIDES
OLIGOPEPTIDE TRANSPORT 5300
TRANSPORT, PHOSPHATE
STOICHIOMETRY OF MITOCHONDRIAL PROTON EJECTION 5670
TRANSPORT, POLYAMINE
POLYAMINE TRANSPORT IN MAMMARY GLAND 2795
TRANSPORT, POTASSIUM
INTERNAL PH OF CHROMAFFIN VESICLES 2189
TRANSPORT, PROTEIN
SUPERNATANT PROTEIN AND SQUALENE EPOXIDASE 5155
TRANSPORT, PROTON
STOICHIOMETRY OF PROTON EJECTION DURING CALCIUM UPTAKE 968
INTERNAL PH OF CHROMAFFIN VESICLES 2189
PROTON TRANSLOCATING ATPASE 2453
A23187 INCREASES POTASSIUM PERMEABILITY OF ERYTHROCYTES 3489
STOICHIOMETRY OF MITOCHONDRIAL PROTON EJECTION 5670
TRANSPORT, RED BLOOD CELLS
SEE ALSO TRANSPORT, ANIMAL
HORMONE-SENSITIVE RESEALED GHOSTS 4930
TRANSPORT, RETINOL
UPTAKE OF VITAMIN A TO TISSUE CELLS 6360
TRANSPORT, RIBOFLAVIN
TRANSPORT OF RIBOFLAVIN IN YEAST 3221
TRANSPORT, SODIUM
DEPENDENCE OF (NA+, K+)ATPASE ON THYROID 7826
TRANSPORT, SUGAR
SEE ALSO TRANSPORT, GLUCOSE
REGULATION OF CARBOHYDRATE METABOLISM IN BACTERIA 883
CARBOHYDRATE UPTAKE IN GRAM POSITIVE BACTERIA 893
CORRECTION TO SAIER ET AL VOL. 250 (1975) P. 7593 1931
RECONSTITUTION OF PERMEABILITY CHANNELS 2176
ROLES OF INDIVIDUAL MGL GENE PRODUCTS IN ACTIVE TRANSPORT 3112
SUGAR TRANSPORT AND TRANSPHOSPHORYLATION SYSTEM 3834
REGULATION OF CARBOHYDRATE METABOLISM IN ESCHERICHIA COLI 5522
MUTANTS OF BACTERIAL PHOSPHOTRANSFERASE SYSTEM 6584
EFFECT OF CRR MUTATION ON REPRESSION OF ENZYME SYNTHESIS 6598
INDUCER EXCLUSION AND REGULATION OF SUGAR TRANSPORT SYSTEMS 6606
TRANSPORT, VITAMIN D
25-HYDROXYVITAMIN D TRANSPORT IN HUMAN PLASMA 4883
TRANSPORT, YEAST
VITAMIN B6 TRANSPORT IN YEAST 1842
TRASYLOL
AFFINITY CHROMATOGRAPHY FORMS OF HUMAN PLASMINOGEN + PLASMIN 3693
TREHALOSE
KINETIC ANALYSIS OF DIFFERENTIATION IN D. DISCOIDEUM 6252
TRIACYLGLYCEROL
EFFECT OF INSULIN ON FATTY ACID CO A LIGASE 1488
DIACYLGLYCEROL ACYLTRANSFERASE ACTIVITY OF FAT CELLS 4537
TRIAMCINOLONE
MECHANISM OF RECEPTOR ACTIVATION 4758
TRICHLOROETHANOL
CHLORAL HYDRATE CAUSES BREAKDOWN OF POLYSOMES IN VIVO 2637
TRICHODERMIN
CYCLOHEXIMIDE INHIBITION OF PROTEIN SYNTHESIS INITIATION 7278
TRIGLYCERIDES
SEE ALSO FATTY ACIDS
SEE ALSO PHOSPHOLIPIDS
C-AMP ACTIVATION OF ACYL HYDROLASES IN ADIPOSE TISSUE 2682
TRIIODOTHYRONINE
SEE ALSO THYROXINE
MALIC ENZYME SYNTHESIS IN CULTURE 3027
BINDING OF THYROID HORMONES TO THYROXINE-BINDING GLOBULIN 3558
STIMULATION OF PROTEOGLYCAN SYNTHESIS BY SERUM FACTORS 3763
THYROID HORMONE ANALOGUES IN THYMOCYTES 4233
THYROXINE ANALOGUE BINDING TO THYROXINE BINDING GLOBULIN 6489
DNA BINDING OF THYROID HORMONE RECEPTORS 7386
NUCLEAR THYROID HORMONE RECEPTORS 7388
DEPENDENCE OF (NA+, K+)ATPASE ON THYROID 7826
EFFECT OF T3 ON (NA+, K+)ATPASE SYNTHESIS 7834
TRIMETHOPRIM
INTERCONVERTIBLE FORMS OF E. COLI DIHYDROFOLATE REDUCTASE 7011
TRINITROPHENYLATION
ENERGY-DEPENDENT AMINO GROUP EXPOSURE ON CHLOROPLAST CF1 7168
TRIPHOSPHOPYRIDINE NUCLEOTIDE
SEE ALSO NADP
TRISACCHARIDE-LIPID
ROLE OF TRISACCHARIDE-LIPID IN GLYCOSYLATION OF PROTEINS 7802
TRISACCHARIDES
ROLE OF TRISACCHARIDE-LIPID IN GLYCOSYLATION OF PROTEINS 7802
TRITIUM EXCHANGE
SEE ALSO HYDROGEN EXCHANGE
AMINOACYL TRANSFER RNA SYNTHETASE-TRANSFER RNA COMPLEX 6823
TRITIUM TRANSFER
INTERMOLECULR TRITIUM TRANSFER IN TRANSCARBOXYLASE REACTION 902
TRITON
SEE ALSO DETERGENTS
TRNA
SEE ALSO RNA, TRANSFER
TROPOELASTIN
ELASTIN BIOSYNTHESIS FROM SOLUBLE ELASTIN IN VITRO 1125
COACERVATES OF ELASTIN PEPTIDES 6871
TROPOMYOSIN
CARDIAC TROPONIN 866
TROPONIN
CARDIAC TROPONIN 866
TROPONIN-C-LIKE PROTEIN IN BOVINE ADRENAL MEDULLA 1683
COMPARISON OF CALCIUM-BINDING PROTEINS 4495
SIMILARITIES BETWEEN CALCIUM-DEPENDENT REGULATORY PROTEINS 4501
CA2+-INDUCED CONFORMATIONAL CHANGE IN ADRENAL MEDULLA TN-C 6315
CREATINE KINASE AS A CONTAMINANT OF MUSCLE TROPONIN 7001
CALCIUM BINDING TO TROPONIN C 7551
TROUT
ASSAY OF TROUT TESTIS PROTAMINE MRNA 1446
TRYPSIN
ORGANIZATION OF CHLOROPLAST MEMBRANES IN C. REINHARDI 247
PURIFICATION OF TWO BLACK-EYED PEA PROTEASE INHIBITORS 734
HALF-SITE REACTIVITY IN PROTEASE-INHIBITOR COMPLEXES 754
ENERGETICS OF PROTEASE-BLACK-EYED PEA INHIBITOR INTERACTIONS 763
ENERGY TRANSFER STUDIES ON PROTEASE INHIBITOR COMPLEXES 769
DEXTRAN-TRYPSIN CONJUGATE 1081
LIMITED PROTEOLYTIC DIGESTION OF LAC REPRESSOR 3386
PRODUCTS OF LIMITED PROTEOLYSIS OF DNA LIGASE 3432
EFFECTS OF TRYPSIN ON GLYCOGEN SYNTHETASE 4359
STRUCTURE OF ATP CITRATE LYASE 5242
TRYPSIN-SUSCEPTIBLE PEPTIDE BONDS IN ENTEROTOXIN C 5580
TRYPSIN INHIBITOR
CIRCULAR DICHROISM OF BOWMAN-BIRK TRYPSIN INHIBITOR 3411
HUMAN PLASMINOGEN ACTIVATION BY UROKINASE 3986
TRYPSINOGEN
DISULFIDE BOND-MODIFIED TRYPSINOGEN 222
TRYPTOPHAN
PURIFICATION OF KIDNEY 3-HYDROXYANTHRANILIC ACID OXYGENASE 368
TURNOVER OF ORNITHINE AMINOTRANSFERASE 1029
PROSTAGLANDIN ENDOPEROXIDE SYNTHETASE 2629
ELECTRONIC STRUCTURE AND BONDING IN AMINO ACIDS 5992
A MULTIFUNCTIONAL ENZYME IN TRYPTOPHAN SYNTHESIS IN EUGLENA 7774
TRYPTOPHAN (IN PROTEINS)
AMINO ACID SEQUENCE OF HUMAN FSH-BETA SUBUNIT 993
LYSOZYME DERIVATIVE MODIFIED AT TRYPTOPHAN 123 1653
MIDPOINT REDUCTION POTENTIAL OF C. ACIDI-URICI FERREDOXIN 1683
COMPLETE AMINO ACID ANALYSIS OF PROTEINS 1936
THE PRIMARY STRUCUTRE OF STREPTOCOCCAL PROTEINASE. III 1955
LAC REPRESSOR-TRYPTOPHANS 3774
CARBON 13 NMR STUDY OF REACTION OF LYSOZYME WITH IODINE 6522
MAPPING OF THE GENE 32-PROTEIN-NUCLEIC ACID BINDING SITE 7229
TRYPTOPHAN DIOXYGENASE
SEE ALSO TRYPTOPHAN OXYGENASE
NEGLIGIBLE AMOUNT OF COPPER IN L-TRYPTOPHAN 2,3-DIOXYGENASE 7722
TRYPTOPHAN OPERON
ANTHRANILATE SYNTHETASE 941
TRYPTOPHAN OXYGENASE
EPR STUDY OF NITROSYL-TRYPTOPHAN-2,3-DIOXYGENASE 1578
TRYPTOPHAN PYRROLASE
SEE ALSO TRYPTOPHAN OXYGENASE

TRYPTOPHAN SYNTHASE
TRYPTOPHAN SYNTHETASE OF PROTEUS MIRABILIS 3875
TRYPTOPHANASE
INTERACTIONS BETWEEN TRYPTOPHANASE PROTOMERS 2814
DISSOCIATED TRYPTOPHANASE IS INACTIVE 2820
TRYPTOPHANYL-TRNA SYNTHETASE
REQUIRED THIOL GROUP AND SEQUENCES OF THIOL PEPTIDES 3254
THIOL PEPTIDES OF HUMAN TRYPTOPHANYL-TRNA SYNTHETASE 3261
BINDING SITES ON TRYPTOPHANYL-TRNA SYNTHETASE OF E. COLI 5195
TSH
SEE ALSO THYROID STIMULATING HORMONE
TUBERCIDIN
COMPARATIVE BINDING AND RATE STUDY OF AMP NUCLEOSIDASE 3417
TUBULIN
NUCLEOTIDE METABOLIZING ENZYMES IN CHLAMYDOMONAS FLAGELLA 182
CORRECTION TO LEE ET AL VOL. 250 P. 9276 1846
PHOSPHORYLATION AXONEMAL PROTEINS IN CHLAMYDOMONAS 2161
IMMUNOSORPTION OF MICROTUBULE PROTEIN 6135
TUMORS
SEE ALSO ASCITES CELLS
SEE ALSO COLON
SEE ALSO EHRLICH ASCITES CELLS
SEE ALSO GLIOMA CELLS
SEE ALSO HELA CELLS
SEE ALSO HEPATOMA
SEE ALSO HEPATOMA CELLS
SEE ALSO LEUKEMIA CELLS
SEE ALSO LYMPHOMA
SEE ALSO MAMMARY TUMORS
SEE ALSO MASTOCYTOMAS
SEE ALSO MUTAGENESIS
SEE ALSO NEUROBLASTOMA CELLS
SEE ALSO PITUITARY
SEE ALSO PLASMACYTOMA CELLS
SEE ALSO ROUS SARCOMA
SEE ALSO THYROID TUMORS
SEE ALSO TYPE C RNA VIRUSES
SEE ALSO VIRUSES
ANTITUMOR GLUTAMINASE-ASPAPAGINASE FROM PSEUDOMONAS 7A 2119
ALPHA-FUCOPYRANOSYL-CERAMIDE 2385
PHENYLALANINE AMMONIA-LYASE INDUCTION PURIFICATION CLEARANCE 4646
TUNGSTEN
EPR OF TUNGSTEN-CONTAINING SULFITE OXIDASE 5505
TWEEN
SEE ALSO DETERGENTS
TYPE C RNA VIRUSES
STRUCTURAL POLYPEPTIDES OF TYPE-C VIRUS 4859
TYROSINE
SEE ALSO PHENYLALANINE HYDROXYLASE
PHENYLALANINE AMMONIA-LYASE INDUCTION PURIFICATION CLEARANCE 4646
3-DEOXY-D-ARABINO-HEPTULOSONATE 7-PHOSPHATE SYNTHASE 5440
ELECTRONIC STRUCTURE AND BONDING IN AMINO ACIDS 5992
TYROSINE (IN PROTEINS)
SEE ALSO IODINATION
PROPERTIES OF SYNTHETIC PARATHYROID HORMONE ANALOGUES 159
PROTEIN AND PEPTIDE HORMONE REACTIONS WITH TETRANITROMETHANE 308
NITRATION AND ACTIVITY OF LUTROPIN 316
OPTICAL PROPERTIES OF BLACK-EYED PEA PROTEASE INHIBITORS 741
INACTIVATION OF PHOSPHORYLASE B BY POTASSIUM FERRATE 1553
SYNTHESIS OF C. ACIDI-URICI FERREDOXIN DERIVATIVES 1675
MIDPOINT REDUCTION POTENTIAL OF C. ACIDI-URICI FERREDOXIN 1683
TYROSINE RESIDUES IN PORCINE MUSCLE ADENYLATE KINASE 3021
CIRCULAR DICHROISM OF BOWMAN-BIRK TRYPSIN INHIBITOR 3411
TITRATION OF TYROSINES IN MYOGLOBINS 5187
INTACT MONOMERIC COLLAGEN AND STRUCUTRE OF NONHELICAL ENDS 6062
CARBON 13 NMR STUDY OF REACTION OF LYSOZYME WITH IODINE 6522
TYROSINE AMINOTRANSFERASE
AROMATIC AMINOTRANSFERASES IN BACILLUS SUBTILIS 6974
TYROSINE TRNA
SYNTHESIS OF A TYROSINE SUPPRESSOR TRNA PRECURSOR GENE 565
SYNTHESIS OF A TYROSINE SUPPRESSOR TRNA PRECURSOR GENE 571
SYNTHESIS OF A TYROSINE SUPPRESSOR TRNA PRECURSOR GENE 587
SYNTHESIS OF A TYROSINE SUPPRESSOR TRNA PRECURSOR GENE 599
SYNTHESIS OF A TYROSINE SUPPRESSOR TRNA PRECURSOR GENE 609
SYNTHESIS OF A TYROSINE SUPPRESSOR TRNA PRECURSOR GENE 624
SYNTHESIS OF A TYROSINE SUPPRESSOR TRNA PRECURSOR GENE 634
SYNTHESIS OF A TYROSINE SUPPRESSOR TRNA PRECURSOR GENE 642
SYNTHESIS OF A TYROSINE SUPPRESSOR TRNA PRECURSOR GENE 651
SYNTHESIS OF A TYROSINE SUPPRESSOR TRNA PRECURSOR GENE 658
SYNTHESIS OF A TYROSINE SUPPRESSOR TRNA PRECURSOR GENE 667
SYNTHESIS OF A TYROSINE SUPPRESSOR TRNA PRECURSOR GENE 676
PROMOTER SEQUENCE OF TYROSINE TRNA GENE 4481
NUCLEOTIDE SEQUENCES AT THE TWO ENDS OF TRNA-TYR GENES 5124

U

UDP
RABBIT SKELETAL MUSCLE GLYCOGEN SYNTHASE II 1920
PROTEIN BINDING TO GALACTOSYLTRANSFERASE 3653
UDP-GALACTOSE
KINETIC MECHANISM OF LACTOSE SYNTHASE 3003
CHONDROITIN SULFATE GLYCOSYLTRANSFERASES IN CHONDROCYTES 3346
PROTEIN BINDING TO GALACTOSYLTRANSFERASE 3653
FORMATION AND PROPERTIES OF RETINYLPHOSPHATE GALACTOSE 4986
UDP-GLUCOSE
SEE ALSO GLYCOGEN SYNTHASE
RABBIT SKELETAL MUSCLE GLYCOGEN SYNTHASE I 1913
UDP-XYLOSE
CHONDROITIN SULFATE GLYCOSYLTRANSFERASES IN CHONDROCYTES 3346
ULTRACENTRIFUGATION
SEE ALSO PROTEIN, CONFORMATION
SEE ALSO SPECIFIC PROTEINS
SELF-ASSOCIATION OF CYTOCHROME B5 IN AQUEOUS SOLUTION 2113
NITRATE REDUCTASE FROM ESCHERICHIA COLI 2207
PSEUDOMONAS 7A GLUTAMINASE-ASPARAGINASE 5375
SELF-ASSOCIATION OF RHESUS MONKEY APOLIPOPROTEIN A-I 7437
ULTRAFILTRATION
COMPARATIVE BINDING AND RATE STUDY OF AMP NUCLEOSIDASE 3417
ULTRAVIOLET
E. COLI ENDONUCLEASE III 1438
HUMAN CORREXONUCLEASE A REPAIR ENZYME FROM PLACENTA 4579
UV SENSITIZATION OF DTMP KINASE BY HALOGENATED ANALOGS 6555
UMP
C6 CELL ECTO-5-PRIME-NUCLEOTIDASE 3900
PURIFICATION OF COMPLEX U UMP SYNTHESIS FROM OROTATE OR OMP 5589
UNWINDING PROTEIN
SEE ALSO DNA, BINDING PROTEIN
SEE ALSO PROTEIN, BINDING
SEE ALSO PROTEIN, DNA-BINDING
SEE ALSO PROTEIN, UNWINDING
UPTAKE
SEE ALSO TRANSPORT
URACIL
BINDING OF URACIL DERIVATIVES TO HYDROPHOBIC PEPTIDES 6924
UREA
CARBAMYL PHOSPHATE SYNTHETASE FROM RAT LIVER MITOCHONDRIA 950
URIC ACID
RENAL METABOLISM OF EXOGENOUS CYCLIC AMP AND CYCLIC GMP 4958
URIDINE
SEE ALSO PSEUDOURIDINE
URIDINE AMINOHEXYL AGAROSE
HUMAN GALACTOSE-1-PHOSPHATE URIDYLYLTRANSFERASE 1057
URIDINE DIPHOSPHATE
SEE ALSO UDP
URIDINE KINASE
CONTROL OF PYRIMIDINE SYNTHESIS BY GUANINE AND GUANOSINE 1427
URIDINE TRIPHOSPHATE
SEE ALSO UTP
UROKINASE
AFFINITY CHROMATOGRAPHY FORMS OF HUMAN PLASMINOGEN + PLASMIN 3693
HUMAN PLASMINOGEN ACTIVATION BY UROKINASE 3986
UTERUS
THIOL GROUP AND FE+++ REQUIREMENT FOR UTERINE PHOSPHATASE 4686
ESTRADIOL EFFECT ON SOLUBILIZED UTERINE RNA POLYMERASES 4843
PROGESTERONE BINDING BY RABBIT AND GUINEA PIG UTERINE NUCLEI 5607
UTP
CTP SYNTHETASE OF CALF LIVER. SIZE, POLYMERIZATION 4372

V

VACCINIA VIRUS
CORRECTION TO MARTIN ET AL VOL. 250 (1975) P. 9322 2539
SPECIFICITY OF VACCINIA MRNA GUANYLYL- AND METHYLTRANSFERASE 7313
VACUOLES
COMPARTMENTATION OF ORNITHINE IN NEUROSPORA 3948
VALINE
VALINE POOL AND PROTEIN SYNTHESIS AND DEGRADATION 4458
C13 NMR STUDY-NONENZYMATIC REACTIONS OF PLP WITH AMINO ACIDS 7661
VALINE (IN PROTEINS)
ALPHA-N-ACETYLATION OF EHRLICH ASCITES PROTEINS 1009
VALINE TRNA
TRANSFER RNA PRECURSORS FROM ESCHERICHIA COLI 922
VALINOMYCIN
PROTON-COUPLED CALCIUM TRANSPORT 962
VALYL-TRNA
AMINO ACID COMPARTMENTATION AND HEPATIC PROTEIN TURNOVER 1375
VALINE POOL AND PROTEIN SYNTHESIS AND DEGRADATION 4458
VALYL-TRNA SYNTHETASE
STRINGENT CONTROL OF ELONGATION FACTORS 898
VASCULAR ENDOTHELIUM
HOMOLOGY OF PULMONARY ANGIOTENSIN-CONVERTING ENZYMES 4828
VASOACTIVE INTESTINAL PEPTIDE
BINDING OF VASOACTIVE INTESTINAL PEPTIDE 4629
CYCLIC AMP IN PANCREATIC ACINAR CELLS 4635
VASOPRESSIN
PROTEIN AND PEPTIDE HORMONE REACTIONS WITH TETRANITROMETHANE 308
CHARACTERIZATION OF PORCINE NEUROPHYSIN III 2735
BINDING OF POLYPEPTIDE HORMONES TO BOVINE NEUROPHYSINS 2929
HORMONE BINDING EFFECTS ON NEUROPHYSIN QUATERNARY STRUCTURE 3965
THE ENDOPEPTIDASE POST-PROLINE CLEAVING ENZYME 7593
VEILLONELLA ALCALESCENS
REGULATION OF ACETATE KINASE BY SUCCINATE AND SUBSTRATES 3117
VENOMS
SEE ALSO PHOSPHOLIPASE
SEE ALSO TOXINS
THROMBIN-LIKE ENZYME FROM BOTHROPS ATROX VENOM 1663
PURIFICATION OF A TOXIC PROTEIN FROM SCORPION VENOM 5528
SPECTRAL CHANGES IN FACTOR X ASSOCIATED WITH ACTIVATION 6807
NEUROTOXIC PHOSPHOLIPASE A SEQUENCE 7343
VERATRIDINE
PURIFICATION OF A TOXIC PROTEIN FROM SCORPION VENOM 5528
VESICLES
SEE ALSO MEMBRANES
SEE ALSO PHOSPHOLIPIDS
SEE ALSO SARCOPLASMIC RETICULUM
SEE ALSO TRANSPORT
GROUP TRANSLOCATION OF INOSINE RIBOSE MOIETY BY SV-3T3 CELLS 344
ATP-DEPENDENT PROPERTIES OF MITOCHONDRIA 934
PROTON-COUPLED CALCIUM TRANSPORT 962
UPTAKE OF NUCLEOSIDE RADIOACTIVITY BY L-CELL PLASMA MEMBRANE 1175
ENZYMES INVOLVED IN VESICLE TRANSPORT 1181
SIDEDNESS OF MEMBRANE PHOSPHORYLATION DURING ATP SYNTHESIS 1413
CORRECTION TO SAIER ET AL VOL. 250 (1975) P. 7593 1531
TRANSMEMBRANE ASYMMETRY OF PHOSPHATIDYLCHOLINE VESICLES 2110
ADENYLATE CYCLASE ACTIVITY IN SECRETORY VESICLES 2179
INTERNAL PH OF CHROMAFFIN VESICLES 2189
ADENINE NUCLEOTIDE TRANSPORT 2446
PROTON TRANSLOCATING ATPASE 2453
GLYCOPROTEIN-ENRICHED VESICLES FROM ERYTHROCYTE GHOSTS 3500
COMPARTMENTATION OF ORNITHINE IN NEUROSPORA 3948
MECHANISM OF RAT LIVER MICROSOMAL STEARYL-CO A DESATURASE 5095
PHOSPHOLIPID-PROTEIN INTERACTION IN CA++ ATPASE 5161
OXIDATIVE PHOSPHORYLATION IN VESICLES OF E. COLI 5315
ATP-DEPENDENT CALCIUM TRANSPORT IN MEMBRANE VESICLES 5614
PHOSPHORYLATION OF THE SARCOPLASMIC RETICULUM MEMBRANE 6355
EFFECT OF LIPIDS ON RECONSTITUTION OF MEMBRANE VESICLES 6662
MEMBRANES OF DEVELOPING CHICK ERYTHROCYTES 6667
THIODIGALACTOSIDE BINDNG TO ESCHERICHIA COLI M PROTEIN 6735
A NONELECTROGENIC H+ PUMP IN HOG GASTRIC MEMBRANE 7690
VESICLES, SECRETORY
COLCHICINE INHIBITION OF HEPATIC GLYCOPROTEIN SECRETION 3887
VESICULAR GLAND
PROSTAGLANDIN ENDOPEROXIDE SYNTHETASE 2629
VESICULAR STOMATITIS VIRUS
RNA POLYMERASE FROM VESICULAR STOMATITIS VIRUS 4387
VIBRIO SUCCINOGENES
L-ASPARAGINASE FROM VIBRIO SUCCINOGENES 6929
VINBLASTINE
CORRECTION TO LEE ET AL VOL. 250 P. 9276 1846
VINCRISTINE
CORRECTION TO LEE ET AL VOL. 250 P. 9276 1846
VINYLGLYCINE
IRREVERSIBLE INHIBITION OF ASPARTATE AMINOTRANSFERASE 3306
ENZYMATIC REACTIONS OF METHIONINE SULFOXIMINE 6674
VINYLGLYOXYLATE
ENZYMATIC REACTIONS OF METHIONINE SULFOXIMINE 6674
ENZYMATIC REACTIONS OF METHIONINE SULFOXIMINE 6674
VIRUSES, ANIMAL
SEE ALSO AVIAN MYELOBLASTOSIS VIRUS
SEE ALSO ENCEPHALOMYOCARDITIS VIRUS
SEE ALSO FROG VIRUS 3
SEE ALSO HERPES SIMPLEX VIRUS
SEE ALSO INTERFERON
SEE ALSO LEUKEMIA VIRUS

SEE ALSO ONCORNAVIRUS
SEE ALSO POLYOMA VIRUS
SEE ALSO POX VIRUS
SEE ALSO ROUS SARCOMA VIRUS
SEE ALSO SEMLIKI FOREST VIRUS
SEE ALSO SV-40 VIRUS
SEE ALSO TRANSFORMATION
SEE ALSO TYPE C RNA VIRUSES
SEE ALSO VACCINIA VIRUS
SEE ALSO VESICULAR STOMATITIS VIRUS
CORRECTION TO MARTIN ET AL VOL. 250 (1975) P. 9322 2539
PURIFICATION OF A VIRION PROTEIN KINASE 3176
VIRUS-SPECIFIED PROTEIN KINASE 3185

VIRUSES, BACTERIAL
SEE ALSO BACTERIOPHAGES

VIRUSES, ENVELOPE
PLASMA MEMBRANE IS ORIGIN OF SEMLIKI FOREST VIRUS ENVELOPE 5544

VIRUSES, POX VIRUS
SEE ALSO POX VIRUS

VIRUSES, VACCINIA
SEE ALSO VACCINIA VIRUS

VITAMIN A
SEE ALSO RETINOL
FORMATION AND PROPERTIES OF RETINYLPHOSPHATE GALACTOSE 4986
UPTAKE OF VITAMIN A TO TISSUE CELLS 6360
ANOMERIC CONFIGURATION OF D-MANNOSYL RETINYL PHOSPHATE 6465

VITAMIN B12
LEUCINE 2,3-AMINOMUTASE, AN ENZYME OF LEUCINE CATABOLISM 1859
BIOCHEMICAL AND ULTRASTRUCTURE CHANGES IN B12 DEFICIENCY 2147
BIOCHEMICAL AND ULTRASTRUCTURE CHANGES IN B12 DEFICIENCY 2155
MECHANISM OF A COBALAMIN-DEPENDENT ENZYME 3734
MITOCHONDRIAL UPTAKE OF HYDROXOCOBALAMIN 6616

VITAMIN B6
SEE ALSO PYRIDOXAL
SEE ALSO PYRIDOXAL PHOSPHATE
SEE ALSO PYRIDOXAMINE
SEE ALSO PYRIDOXINE
TRANSPORT OF VITAMIN B6 IN S. TYPHIMURIUM 1652
IN VIVO METABOLISM OF 4-DEOXYPYRIDOXINE IN RAT + MAN 1646

VITAMIN D
VITAMIN D2 HYDROXYLASES 24
24, 25-DIHYDROXYVITAMIN D3 397
METABOLISM OF 1-ALPHA-HYDROXYVITAMIN D3 1025
1-ALPHA, 25-DIHYDROXYVITAMIN D3-STIMULATED TEMPLATE ACTIVITY 2388
25-HYDROXYVITAMIN D3-1-ALPHA-HYDROXYLASE 3158
ISOLATION OF CHICK RENAL MITOCHONDRIAL FERREDOXIN 3933
25-HYDROXYVITAMIN D TRANSPORT IN HUMAN PLASMA 4803

VITAMIN D3
SYNTHESIS AND METABOLISM OF TRITIATED HYDROXY VITAMIN D-3 1620

VITAMIN K
A NEW VITAMIN K-DEPENDENT PROTEIN 355
SULFHYDRYL AGENTS AND FAT CELL HEXOSE TRANSPORT 1164
VITAMIN K-DEPENDENT CARBOXYLASE 2770
NEW VITAMIN K-DEPENDENT ZYMOGEN 3452
LANTHANIDE IONS AND METAL-DEPENDENT PROTHROMBIN ACTIVATION 3235
VITAMIN K-DEPENDENT CARBOXYLATION 3269
PEPTIDE SUBSTRATE FOR VITAMIN K DEPENDENT CARBOXYLASE 5827
SOLUBILIZATION OF VITAMIN K DEPENDENT CARBOXYLASE 6238
SPECTRAL CHANGES IN FACTOR X ASSOCIATED WITH ACTIVATION 6887
ROLE OF GAMMA-CARBOXYGLUTAMIC ACID 6886

VITELLOGENIN
ESTROGEN INDUCTION OF VITELLOGENIN MESSENGER RNA 3105

W

WALLS, CELL
SEE ALSO MEMBRANES
MEMBRANE BOUND PEPTIDOGLYCAN SYNTHETIC PROTEIN B MEGATERIUM 1889
HETEROCYST AND SPORE POLYSACCHARIDES 2967
YEAST CHITIN SYNTHETASE ACTIVATING FACTOR 3367
PURIFICATION OF THE PNEUMOCOCCAL AUTOLYSIN (AMIDASE) 4199
TRANSITION STATE ANALOG OF LYSOZYME CATALYSIS 4336
STRUCTURE OF PLANT CELL WALLS 5904
N-ACETYLGLUCOSAMINYLTRANSFERASE IN PEPTIDOGLYCAN SYNTHESIS 6154
DEGRADATION OF PENILLILIN G BY D-ALANINE CARBOXYPEPTIDASE 7947

WATER PROTON RELAXATION RATE
SEE ALSO NUCLEAR MAGNETIC RESONANCE

WHALE
MYOGLOBIN WITH 13C IN METHIONINE METHYLS 7452

WHEAT GERM
SEE ALSO LECTINS
WHEAT GERM 80S RIBOSOME METHIONYL-TRNA COMPLEX 6875

WHEY
BOVINE SECRETORY COMPONENT ISOLATION AND CHARACTERIZATION 1969

WHITE BLOOD CELLS
SEE ALSO LEUKEMIA CELLS
SEE ALSO LYMPHOCYTES
LEUCINE 2,3-AMINOMUTASE, AN ENZYME OF LEUCINE CATABOLISM 1859
BINDING AND DEGRADATION OF INSULIN BY HUMAN GRANULOCYTES 2761
PURIFICATION OF HUMAN LEUKOCYTE INTERFERON COMPONENTS 4810

WOLMAN SYNDROME
RETURN OF LDL RESPONSE IN ACID LIPASE-DEFICIENT FIBROBLASTS 3277

WORMS
SEE ALSO INVERTEBRATES
SEE ALSO NEMERTINES
SEQUENCE OF CEREBRATULUS LACTEUS NEUROTOXIN B-IV 6025

WOUND HORMONE
SPECIFICITY OF PROTEIN TURNOVER IN TOMATO LEAVES 7484

X

X-AZOLIDINE
INACTIVATION OF CYTO MALATE DEHYDROGENASE BY PYRIDOXAL-5-P 6304

X-RAY
SEE ALSO CRYSTALLOGRAPHY
SEE ALSO PROTEIN, CONFORMATION
SEE ALSO PROTEIN, STRUCTURE
SEE ALSO PULSE RADIOLYSIS
HALOMETHYL KETONES FORM TETRAHEDRAL ADDUCTS WITH SUBTILISIN 1097
PARACOCCUS DENITRIFICANS CYTOCHROME C550 SEQUENCE 2197
P.AEROGENES FERREDOXIN STRUCTURE. REFINEMENT AT 2 ANGSTROMS 3801
PARACOCCUS CYTOCHROME C 550 STRUCTURE 4033
HEMOGLOBINS NANCY AND COCHIN-PORT-ROYAL 5875
X-RAY STRUCTURE AND LIGAND BINDING OF PHOSPHORYLASE A 6142
PROTEIN CRYSTALS FROM POLYETHYLENE GLYCOL 6380
ACTIVITY OF GLYCOGEN PHOSPHORYLASE IN THE CRYSTALLINE STATE 6852

XANTHINE OXIDASE
AMMONIA PRODUCTION IN BRAIN 485

XENOPUS LAEVIS
ESTROGEN INDUCTION OF VITELLOGENIN MESSENGER RNA 3105
MITOCHONDRIAL INNER MEMBRANE SYNTHESIS IN CULTURED OOCYTES 6697

XYLOSE
CHONDROITIN SULFATE GLYCOSYLTRANSFERASES IN CHONDROCYTES 3346

Y

YEAST
SEE ALSO CANDIDA BOGORIENSIS
SEE ALSO HANSENULA CIFERRI
SEE ALSO RHODOTORILA GLUTINIS
SEE ALSO SACCHAROMYCES CARLSBERGENSIS
SEE ALSO SACCHAROMYCES CEREVISIAE
STRUCTURAL STUDIES ON YEAST RNA POLYMERASES 1712
STABILITY AND ACTIVITY OF ISOPROPYLMALATE ISOMERASE 3545
TRANSLATION OF YEAST CYTOCHROME C MRNA 6328

YELLOW ENZYME
INTACT OLD YELLOW ENZYME VIA SINGLE CHROMATOGRAPHIC STEP 5321
CHARGE-TRANSFER COMPLEXES OF OLD YELLOW ENZYME 5327

Z

ZINC
LEUCINE AMINOPEPTIDASE. EFFECT OF PH ON BINDING OF METAL ION 93
PRONASE CARBOXYPEPTIDASE 284
ZINC-CHLORIDE ION EXCHANGE RATES IN CARBOXYPEPTIDASE A 403
FIDELITY OF DNA REPLICATION 975
PHOSPHORYL ALKALINE PHOSPHATASES 1202
31-P NMR OF PHOSPHATE COMPLEXES OF PHOSPHATASE 1207
REVERSIBLE RESOLUTION OF A MANGANIC SUPEROXIDE DISMUTASE 1217
LEUCINE AMINOPEPTIDASE (BOVINE LENS) COBALT ENZYME 1618
ALPHA-D-MANNOSIDASE OF RAT LIVER CYTOSOL 3045
PH-DEPENDENT PROPERTIES OF HUMAN CARBONIC ANHYDRASE B 3862
CORRECTION TO OSE AND FRIDOVICH VOL. 251 (1976) P. 1217 4796